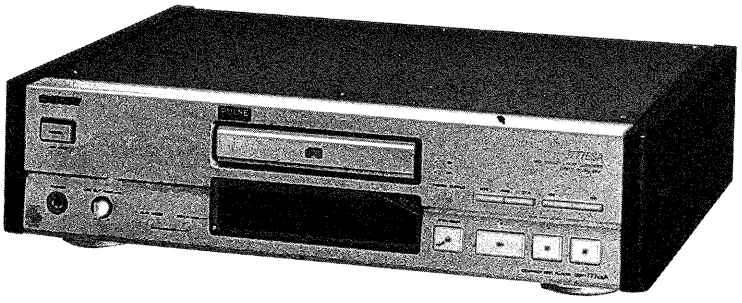
CDP-X779ES

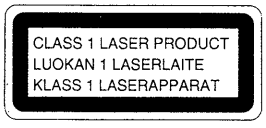
SERVICE MANUAL

US Model
Canadian Model
AEP Model



COMPACT disc DIGITAL AUDIO

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.



This Compact Disc player is classified as a CLASS 1 LASER Product. The CLASS 1 LASER PRODUCT label is located on the rear exterior

Model Name Using Similar Mechanism	CDP-X777ES
CD Mechanism Type	CDM19A-6F70 (Black) CDM19B-6F70 (Gold)
Optical Pick-Up Type	KSS-272A

SPECIFICATIONS

Compact disc player

Laser	Semiconductor laser (λ = 780 nm) Emission duration: continuous
Laser output	Max. 44.6 μW* * This output is the value measured at a distance of about 200 mm from the objective lens surface on the Optical Pick-up Block.
Frequency response	2 Hz – 20 kHz ±0.3 dB
Signal to noise ratio	More than 119 dB
Dynamic range	More than 100 dB
Harmonic distortion	Less than 0.0015%
Channel separation	More than 110 dB

Outputs

LINE OUT (FIXED)	Output level 2 V (at 50 kilohms) Load impedance over 10 kilohms
LINE OUT (VARIABLE)	Output level max. 2 V (at 50 kilohms) Load impedance over 50 kilohms
BALANCED OUT (FIXED)	Output level 2 V (at 50 kilohms) Load impedance over 600 ohms
DIGITAL OUT (COAXIAL)	Output level 0.5 Vp-p (at 75 ohms) Load impedance 75 ohms
DIGITAL OUT (OPTICAL)	Wave length 660 nm Output level – 18 dBm
PHONES (Stereo phone jack)	Output level max. 100 mW Load impedance 32 ohms

General

Power requirements	**Model for AEP** **220 – 230 V AC 50/60 Hz** **Model for US, Canada** **120 V AC. 60 Hz**
Power consumption	38 W
Dimensions (approx., including projections)	470 × 125 × 375 mm (w/h/d) ($18^5/_8 \times 5 \times 14^7/_8$ inches)
Weight (approx.)	16.5 kg (36 lbs 7 oz)

— **Continued on next page** —

COMPACT DISC PLAYER

SONY®

Remote commander (RM-D995)

Remote control system	Infrared control
Power requirements	3 V DC with two batteries size AA (IEC designation R6)
Dimensions	62×18×175 mm (w/h/d) (2 1/2×23/32×7 inches)
Weight	135 g (4.6 oz) Including batteries

Supplied accessories

Connecting cord	1 (2 phono plugs ↔ 2 phono plugs)
Remote commander	1
Sony SUM-3(NS) batteries	2
Screws (for models with sidewood panels only)	8

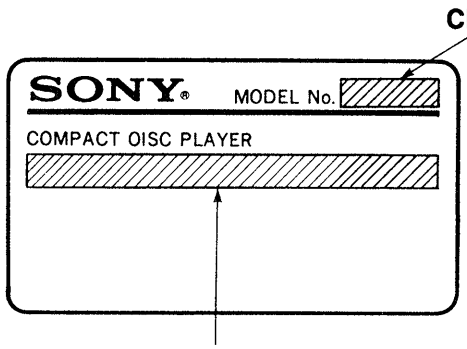
Optional accessory

Audio optical connecting cord POC-15
Digital connecting cord VMC-1ES

Design and specifications are subject to change without notice.

MODEL IDENTIFICATION

—Model Number Label—



US model : AC : 120V 60Hz (UL mark on rear panel.)

Canadian model : AC : 120V 60Hz

AEP model : AC : 220—230V~50/60Hz

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SAFETY-RELATED COMPONENT WARNING!!

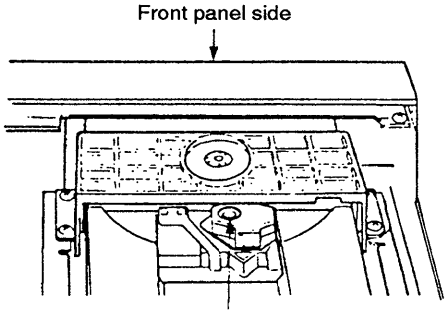
COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

[CHECKING METHODS OF LASER DIODE AND FOCUS SEARCH OPERATIONS]

- Turn the power switch ON with the condition of the disc table closed without disc. And then watch the objective lens to check whether the operation can be performed or not, as the below figure shows.



- The laser beams diffused can be observed.
- The up and down movements of the objective lens (Twice)

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30cm away from the objective lens.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

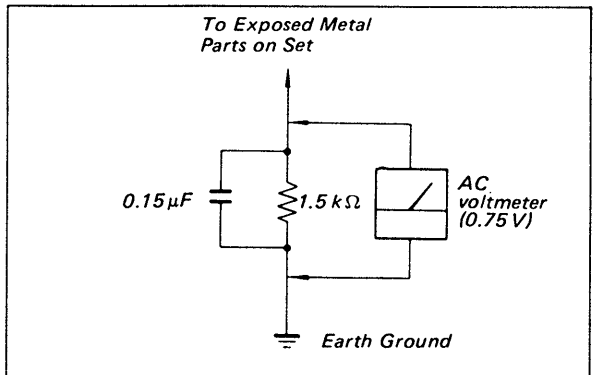
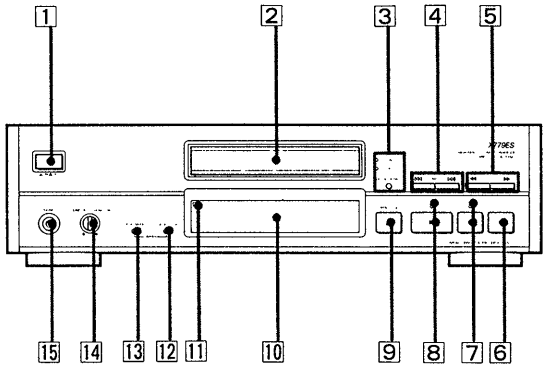


Fig. A. Using an AC voltmeter to check AC leakage.

SECTION 1
GENERAL

Identifying the Parts

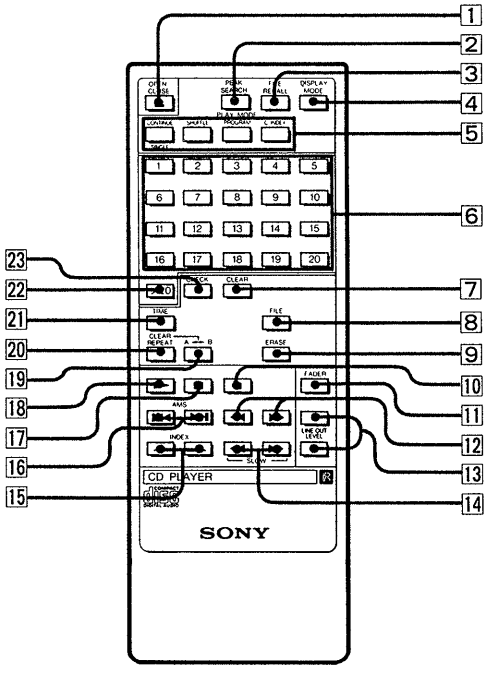
Front Panel



1 Power switch
2 Disc tray
3 DIGITAL OUTPUT button and indicators
4 ⏮ ⏭ AMS* buttons
5 ◀◀ ▶▶ (manual search) buttons
6 ■ (stop) button
7 ⏸ (pause) button and indicator
8 ▶ (play) button and indicator
9 ⏏ OPEN/CLOSE button
10 Display window
11 Remote sensor
12 DISPLAY MODE button
13 PLAY MODE buttons
14 LINE OUT/PHONE LEVEL control
15 PHONES jack

* AMS is the abbreviation of Automatic Music Sensor.

Remote Commander



1 ⏏ OPEN/CLOSE button
2 PEAK SEARCH button
3 FILE RECALL button
4 DISPLAY MODE button
5 PLAY MODE buttons
CONTINUE button
SHUFFLE button
PROGRAM button
C. INDEX button
6 Numeric buttons
7 CLEAR button
8 FILE (custom file) button
9 ERASE button
10 ■ (stop) button
11 FADER (fade in/fade out) button
12 ◀◀ ▶▶(manual search) buttons
13 LINE OUT LEVEL (line out/headphones level) buttons
14 ◀◀ ▶▶ SLOW (low speed manual search) buttons
15 — — INDEX buttons
16 ⏮ ⏭ AMS* buttons
17 ⏸ (pause) button
18 ▶ (play) button
19 A ↔ B repeat button
20 REPEAT (repeat/A-B repeat clear) button
21 TIME button
22 > 20 (over 20) button
23 CHECK button

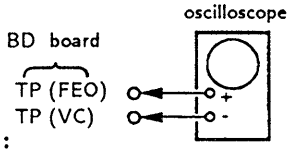
* AMS is the abbreviation of Automatic Music Sensor.

SECTION 2
ELECTRICAL BLOCK CHECKING

Note :

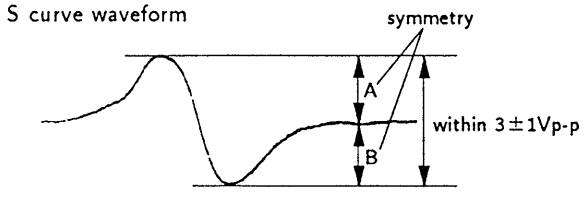
1. CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use the oscilloscope with more than 10MΩ impedance.
4. Clean an object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

S Curve Check



Procedure :

1. Connect oscilloscope to test point TP (FEO) on BD board.
2. Connect between test point TP (FES) and TP (VC) by lead wire.
3. Turned Power switch on and actuate the focus serch. (actuate the focus serch when disc table is moving in and out.)
4. Check the oscilloscope waveform (S curve) is symmetrical between A and B. And confirm peak to peak level within 3±1Vp-p.

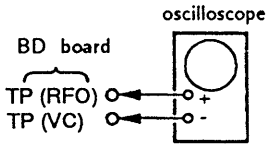


5. After check, remove the lead wire connected in step 2.

Note : • Try to mesure several times to make sure that the ratio of A : B or B : A is more than 10 : 7.

• Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check

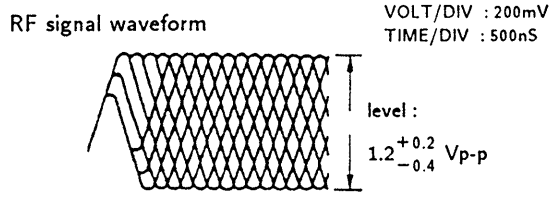


Procedure :

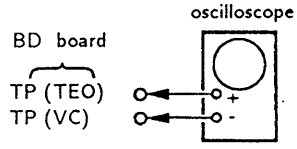
1. Connect oscilloscope to test point TP (RFO) on BD board.
2. Turn Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note :

Clear RF signal waveform means that the shape "◇" can be clearly distinguished at the center of the waveform.

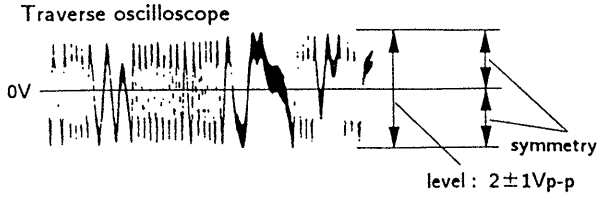


E-F Balance Check



Procedure :

1. Connect test point TP (ADJ) to ground and TP (TES) to TP (VC) with lead wire.
2. Connect oscilloscope to test point TP (TEO) on BD board.
3. Turn Power switch on.
4. Put disc (YEDS-18) in and playback.
5. Confirm that the osilloscope waveform is symmetrical on the top and bottom in relation to 0V, and check this level.

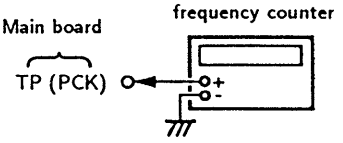


6. Remove the lead wire connected in step 1.

RF PLL Free-run Frequency Check

Procedure :

1. Connect frequency counter to test point (PCK) with lead wire.



2. Turn Power switch on.
3. Confirm that reading on frequency counter is 4. 3218MHz.

Focus/Tracking Gain

This gain has a margin, so even if it is slightly off. There is no problem.

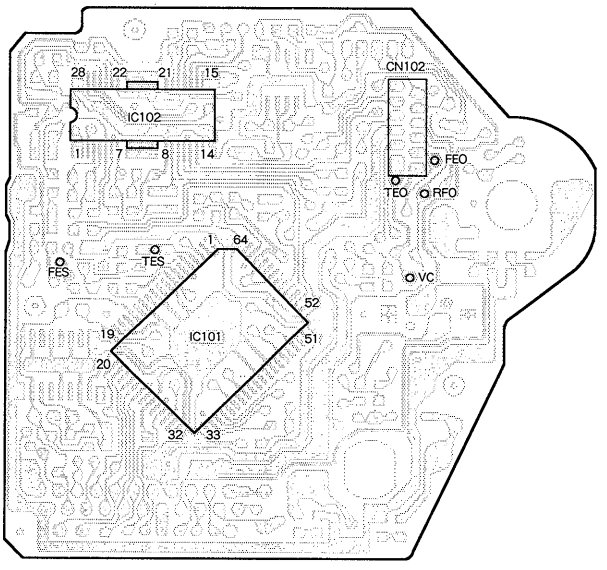
Therefore, do not perform, this adjustment.

Please note that it should be fixed to mechanical center position when you moved and do not know original position.

Adjustment Locations :

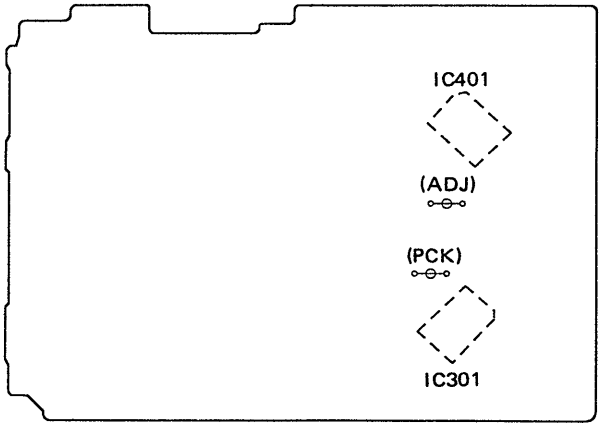
[BD board]

— conductor side —



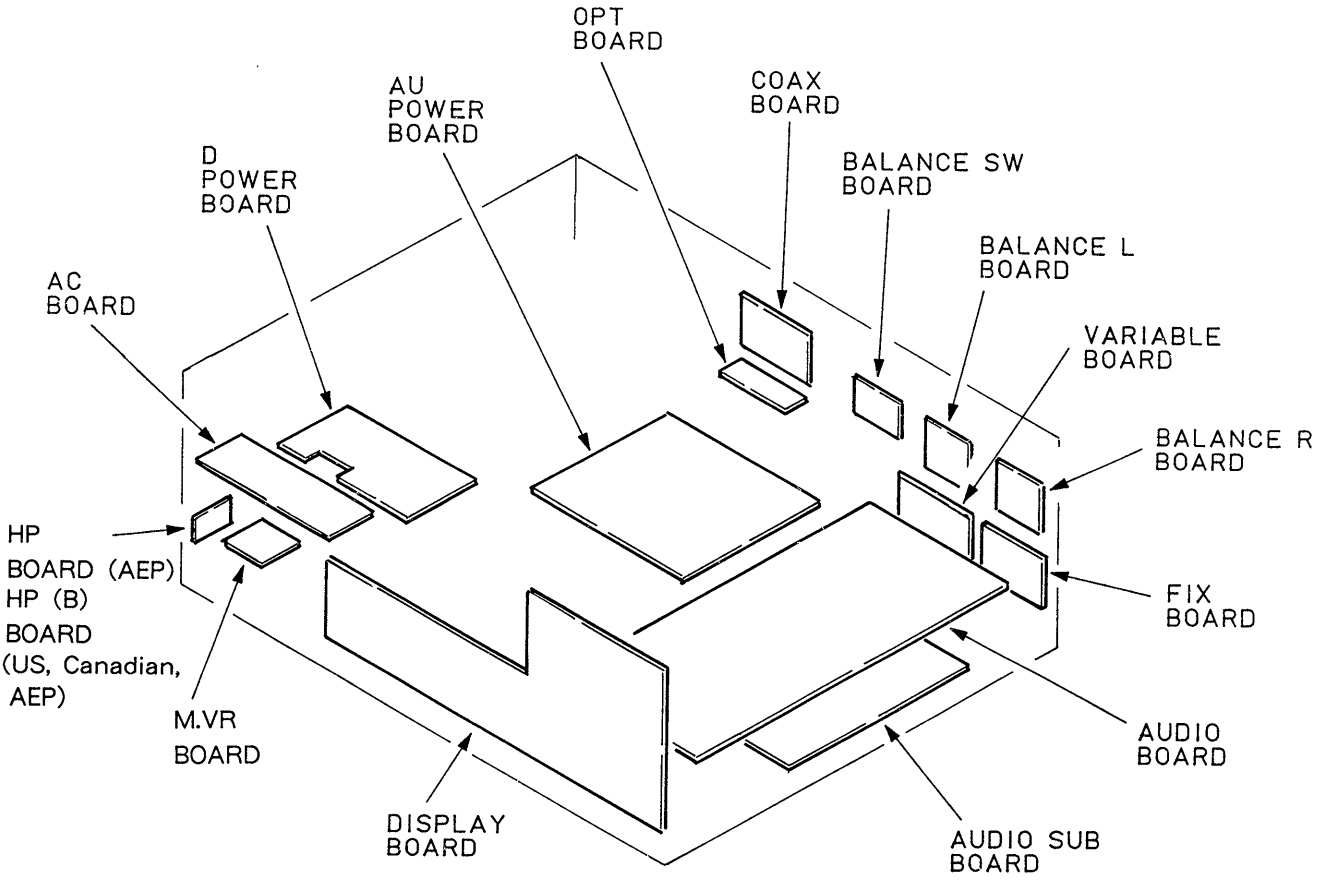
[Main board]

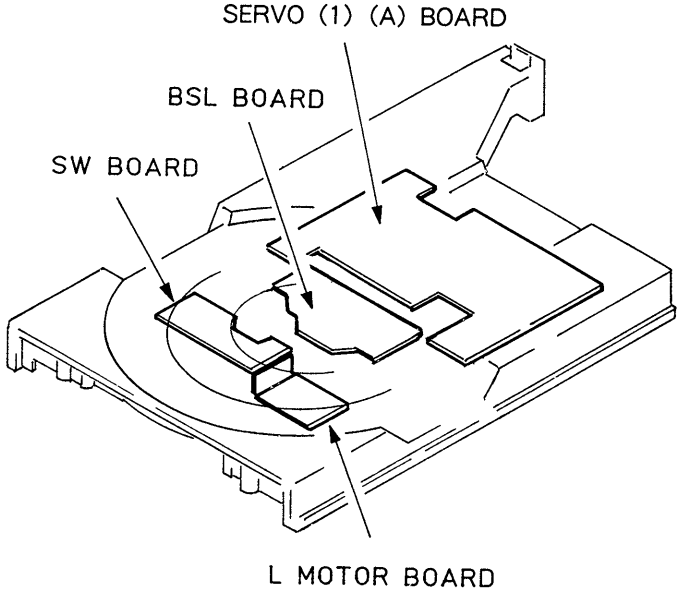
— component side —



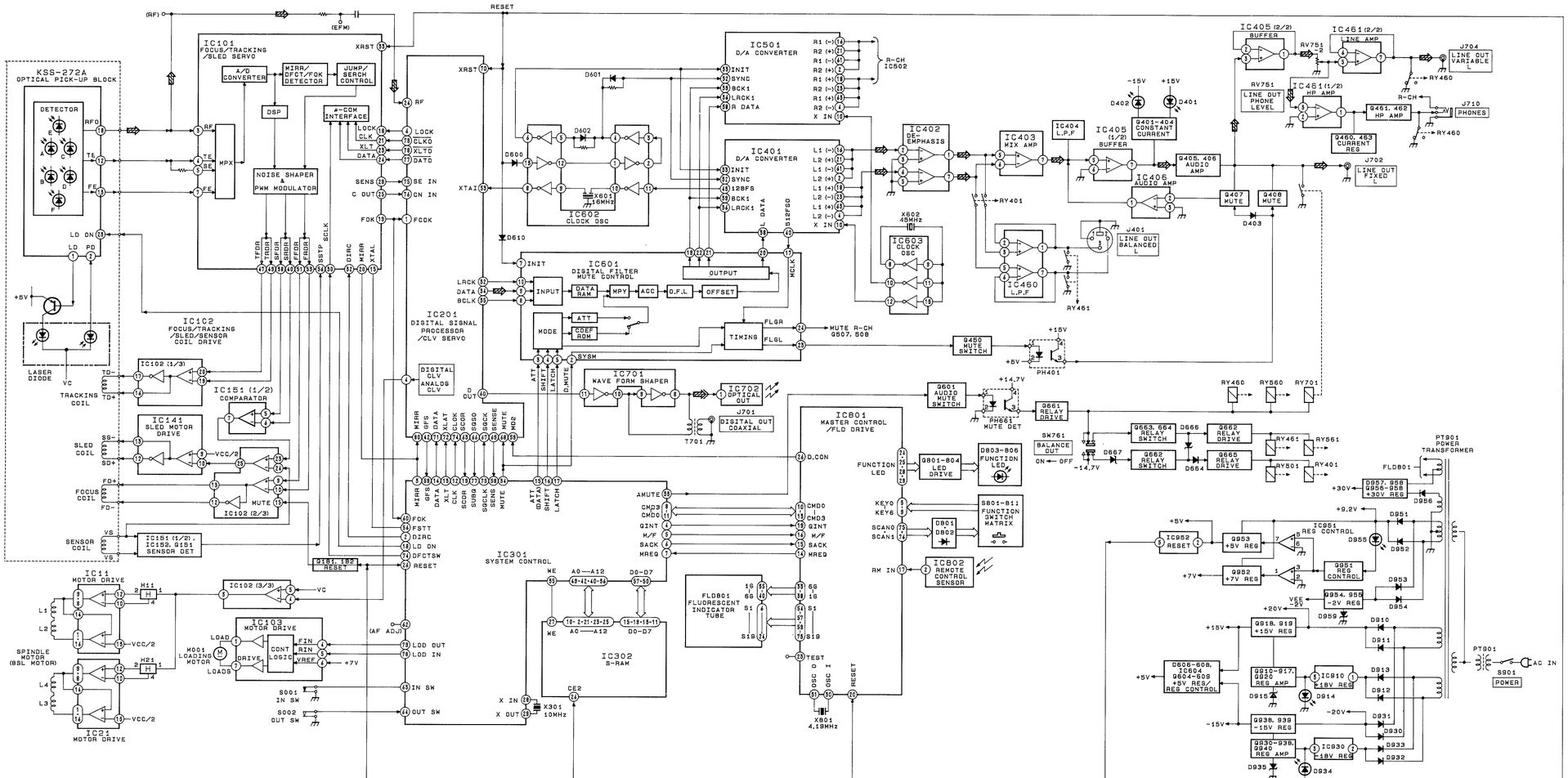
SECTION 3
DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION





3-2. BLOCK DIAGRAMS



3-3. PRINTED WIRING BOARD — AUDIO SECTION —

- Refer to page 29 for IC BLOCK DIAGRAM
- Refer to page 32 for Semiconductor Lead Layouts

— AUDIO SECTION —

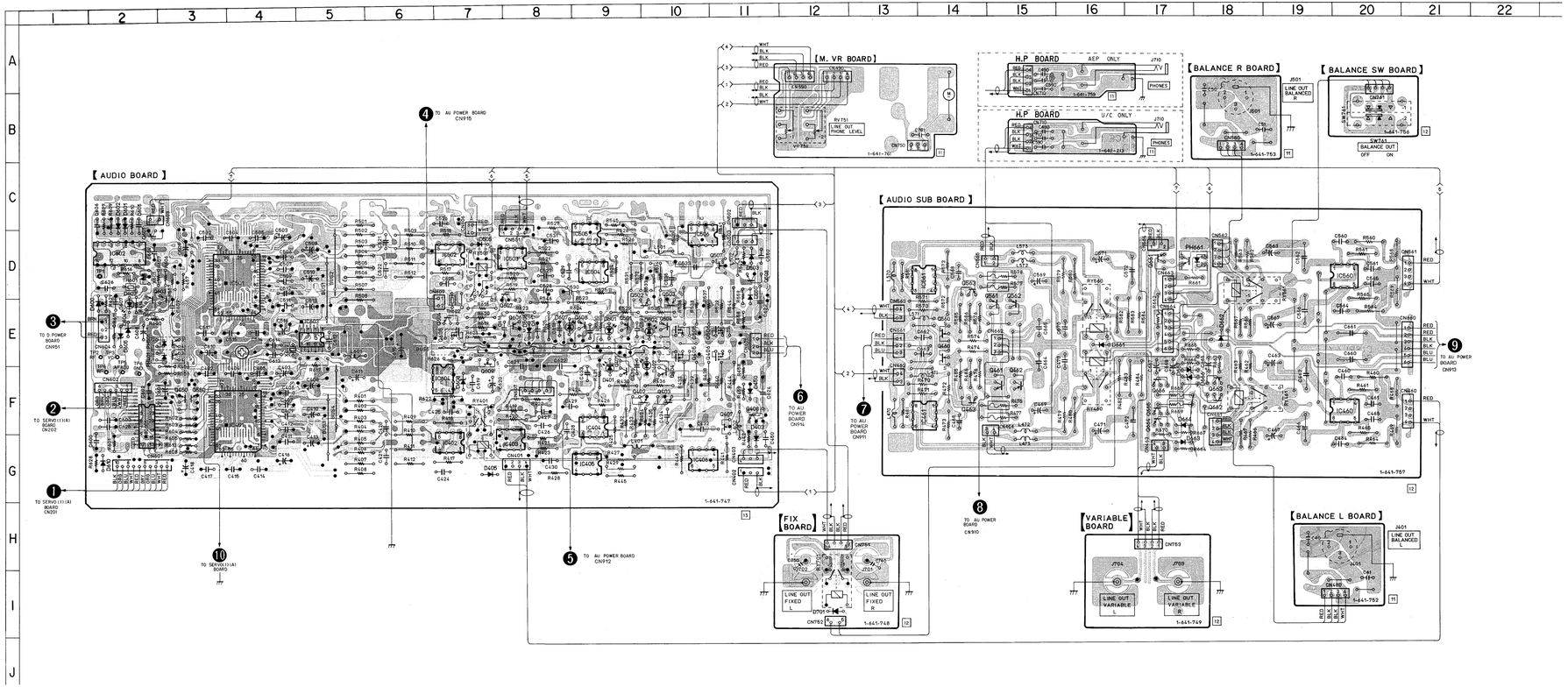
- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D401	F-9	Q401	F-9
D402	F-10	Q402	F-9
D403	G-11	Q403	F-10
D405	G-7	Q404	F-10
D450	F-11	Q405	E-10
D501	E-9	Q406	E-11
D502	E-10	Q407	F-11
D503	D-11	Q408	F-11
D505	D-7	Q450	F-9
D550	D-11	Q460	E-14
D600	E-2	Q461	F-15
D601	C-2	Q462	F-15
D602	C-2	Q463	F-14
D603	E-2	Q501	E-9
D604	E-2	Q502	E-10
D605	E-2	Q503	E-10
D606	E-8	Q504	E-10
D607	E-8	Q505	E-10
D608	F-7	Q506	E-11
D610	G-2	Q507	D-11
D661	E-16	Q508	D-11
D662	E-18	Q550	F-9
D663	G-17	Q560	E-14
D664	F-17	Q561	E-15
D666	F-17	Q562	E-15
D667	F-17	Q563	D-14
D701	I-12	Q601	D-2
		Q602	E-2
IC401	F-4	Q603	E-3
IC402	G-7	Q604	E-7
IC403	G-8	Q605	E-7
IC404	F-9	Q606	E-8
IC405	G-9	Q607	E-8
IC406	G-10	Q608	E-9
IC460	F-20	Q609	E-7
IC461	F-14	Q651	D-17
IC501	D-4	Q662	F-18
IC502	D-7	Q663	F-18
IC503	D-8	Q664	F-17
IC504	D-9	Q665	F-17
IC505	D-9	Q666	F-17
IC506	D-10		
IC560	D-20		
IC561	D-14		
IC601	F-2		
IC602	D-2		
IC603	E-5		
IC604	F-7		
PH401	E-3		
PH501	E-3		
PH661	D-17		

— AUDIO SECTION —

Note:

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.
- ⊗ : Through hole.
- ▨▨▨ : Pattern on the side which is seen.
- ▨▨▨ : Pattern of the rear side.



3-4. SCHEMATIC DIAGRAM — AUDIO SECTION —

- Refer to page 29 for IC BLOCK DIAGRAM
- Refer to page 32 for Semiconductor Lead Layouts
- Refer to page 31 for Waveform

[AUDIO BOARD]
IC601 DIGITAL FILTER MUTE CONTROL
IC501 D/A CONVERTER
IC502 DE-EMPHASIS
IC503 MIX AMP
IC504 LOW PASS FILTER
IC505 BUFFER
IC506 AUDIO AMP
Q501 - 504 CONSTANT CURRENT
Q505,506 AUDIO AMP
Q507,508 MUTE SWITCH
IC602 CLOCK OSC
IC603 CLOCK OSC
IC604 REG CONTROL
Q604 - 609 +5V REG
Q601 AUDIO MUTE SWITCH
Q602,603 DIGITAL REG
IC401 D/A CONVERTER
IC402 DE-EMPHASIS
IC403 MIX AMP
IC404 LOW PASS FILTER
IC406 AUDIO AMP
IC405 BUFFER
Q401 - 404 CONSTANT CURRENT
Q405,406 AUDIO AMP
Q407,408 MUTE SWITCH
Q450,550 MUTE SWITCH
TO SERVO (1)(A) BOARD CN201
TO SERVO (1)(A) BOARD CN202
TO D POWER BOARD CN951
TO AU POWER BOARD CN915
TO AU POWER BOARD CN914
TO AU POWER BOARD CN912
[M.VR BOARD]
LINE OUT PHONE LEVEL
TO D POWER BOARD CN955
[FIX BOARD]
LINE OUT FIXED R
LINE OUT FIXED L
[AUDIO SUB BOARD]
PH661 MUTE DET
Q662,663,664 RELAY SWITCH
Q661,665,666 RELAY DRIVE
[BALANCE SW BOARD]
BALANCE OUT
ON ← OFF
[BALANCE R BOARD]
LINE OUT BALANCED R
[BALANCE L BOARD]
LINE OUT BALANCED L
TO AU POWER BOARD CN913
TO AU POWER BOARD CN911
TO AU POWER BOARD CN910
IC560 LOW PASS FILTER
IC460 LOW PASS FILTER
Q560,563 CURRENT REG
Q561,562 HP AMP
IC561 HP/LINE AMP
Q460,463 CURRENT REG
Q461,462 HP AMP
IC461 HP/LINE AMP
[VARIABLE BOARD(1/2)]
LINE OUT VARIABLE R
[H.P BOARD]
PHONES
[VARIABLE BOARD(2/2)]
LINE OUT VARIABLE L

— AUDIO SECTION —

Note:

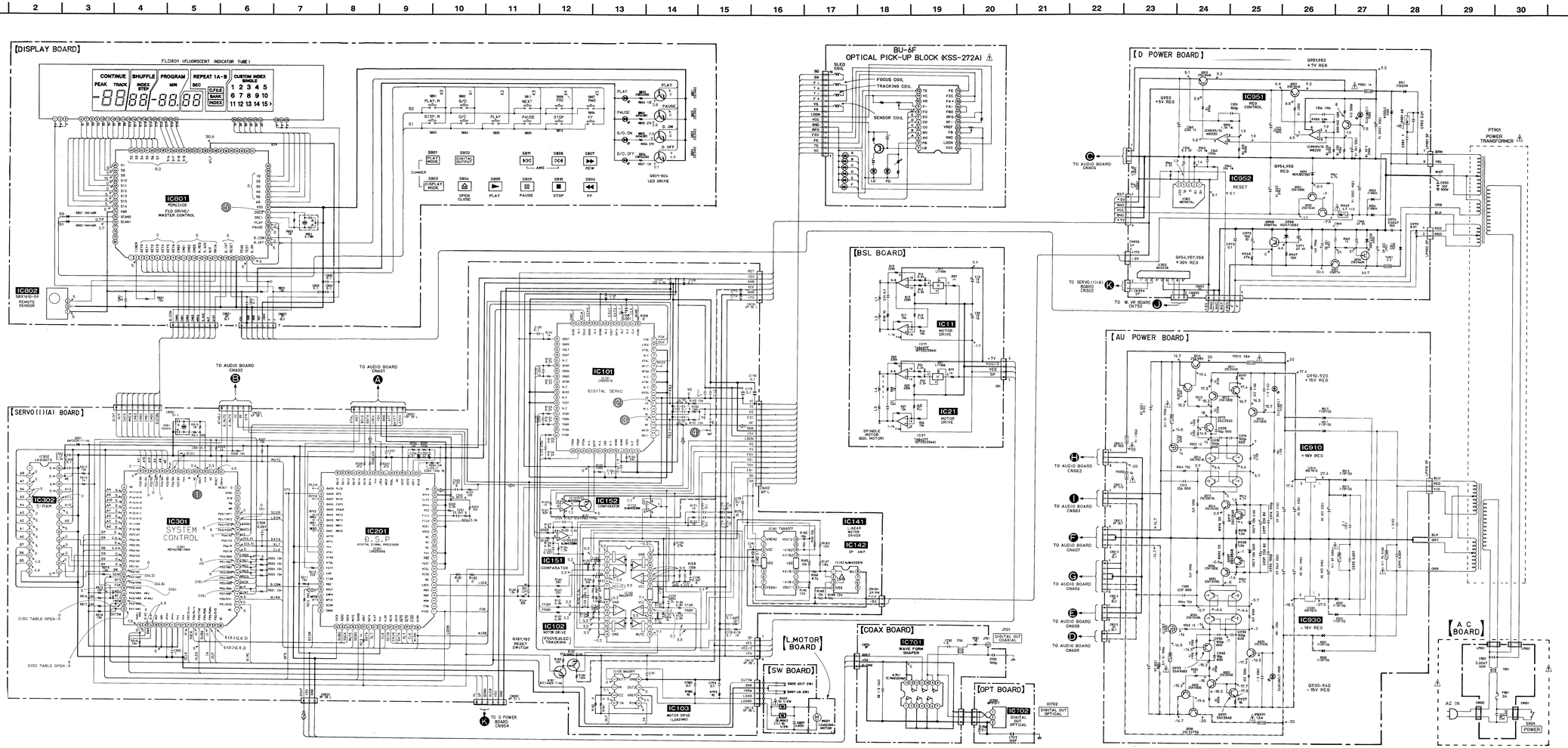
- All capacitors are in μF unless otherwise noted. pF: $\mu\mu$F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- —W~— : fusible resistor. All 1/4W.

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safty. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

- ——— : B+ line
- – – – : B– line
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : STOP
  ⟨ ⟩: PLAY
  ( ): During load-out operation
  (( )) : During load-in operation
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD
  ⇨⇨ : digital out
- Resistors which are in the 600s and have no specifications are below 1/4W.
  Those which are not in the above range and have no specifications are 1/4W.

3-5. SCHEMATIC DIAGRAM — DIGITAL SECTION —

- Refer to page 29 for IC BLOCK DIAGRAM
- Refer to page 32 for Semiconductor Lead Layouts
- Refer to page 31 for Waveform



— 20 —

— 21 —

— 22 —

— 23 —

— 24 —

— DIGITAL SECTION —

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- ⚠ : internal component.
- ⚠ : fusible resistor.

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safty. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- ——— : B+ line
- - - - : B– line
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : STOP
  ( ) : PLAY
  { } : During load-out operation
  {{ }} : During load-in operation
- Circled numbers refer to waveforms.
- Signal path.
  ▷ : CD
  ▷ : digital out
- Those of the audio power board which have no specifications are 1/2W.

3-6. PRINTED WIRING BOARD — DIGITAL SECTION —

- Refer to page 29 for IC BLOCK DIAGRAM
- Refer to page 32 for Semiconductor Lead Layouts

— DIGITAL SECTION —

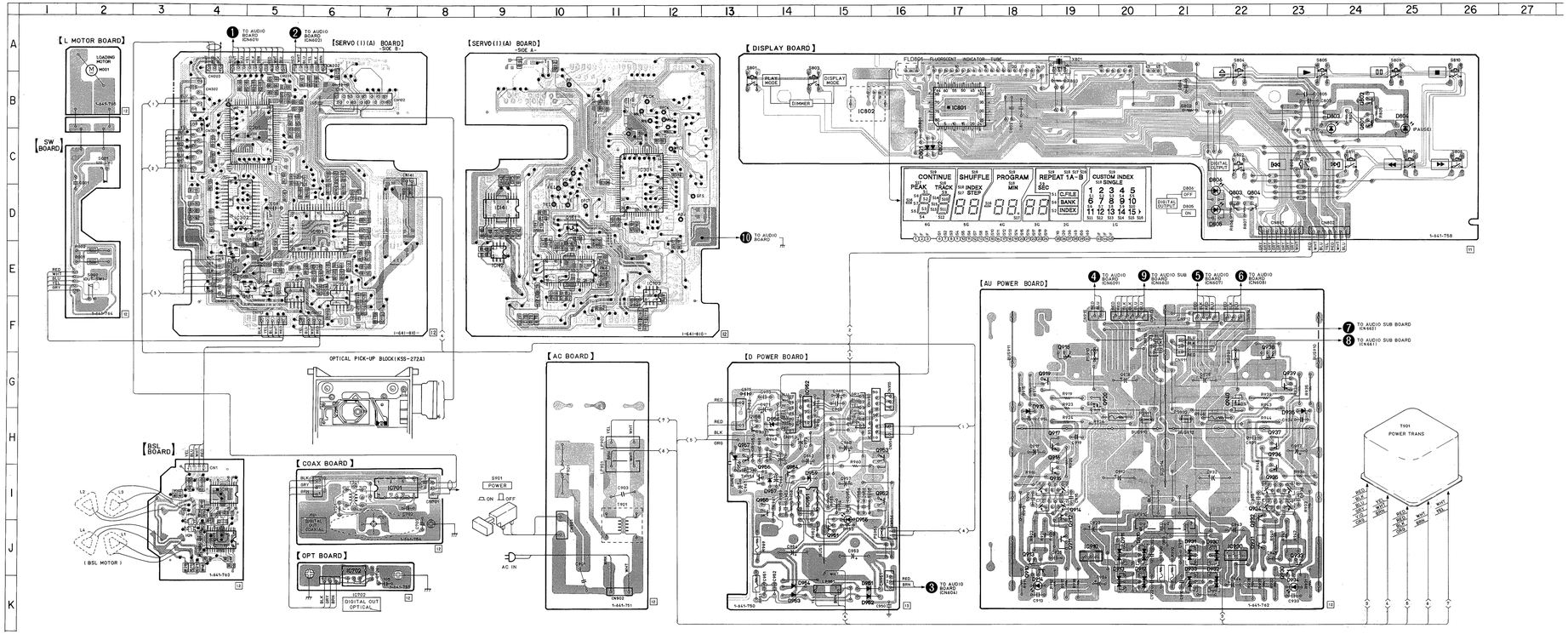
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D301	E-4	Q151	D-10
D801	C-16	Q181	E-4
D802	C-17	Q182	E-5
D803	B-24	Q801	B-24
D804	B-25	Q802	B-24
D805	D-22	Q803	D-22
D806	D-22	Q804	D-22
D910	J-20	Q910	J-18
D911	J-20	Q911	J-19
D912	K-20	Q912	I-19
D913	K-20	Q913	J-18
D914	K-18	Q914	I-19
D915	H-18	Q915	I-19
D930	J-21	Q916	H-19
D931	J-21	Q917	H-19
D932	K-21	Q918	F-19
D933	K-21	Q919	G-19
D934	K-23	Q920	G-19
D935	H-23	Q930	J-23
D951	K-15	Q931	J-22
D952	K-15	Q932	I-22
D953	K-14	Q933	J-23
D954	K-14	Q934	I-23
D955	J-15	Q935	I-23
D956	H-13	Q936	H-23
D957	I-14	Q937	H-23
D958	H-14	Q938	F-22
D959	I-14	Q939	G-23
		Q940	G-22
IC11	I-4	Q951	J-15
IC21	J-4	Q952	I-16
IC101	D-9	Q953	H-16
IC102	E-10	Q954	I-14
IC103	F-12	Q955	I-14
IC141	D-9	Q956	I-14
IC142	E-9	Q957	H-13
IC151	F-8	Q958	H-13
IC152	E-5		
IC201	C-5		
IC301	C-11		
IC302	D-4		
IC701	I-7		
IC702	J-6		
IC801	B-17		
IC802	B-15		
IC910	J-19		
IC930	J-22		
IC951	I-14		
IC952	H-14		
IC953	H-15		

— DIGITAL SECTION —

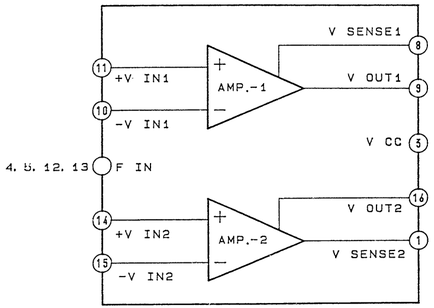
Note:

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.
- ⊗ : Through hole.
- ▨ : Pattern on the side which is seen.
- ▨ : Pattern of the rear side.

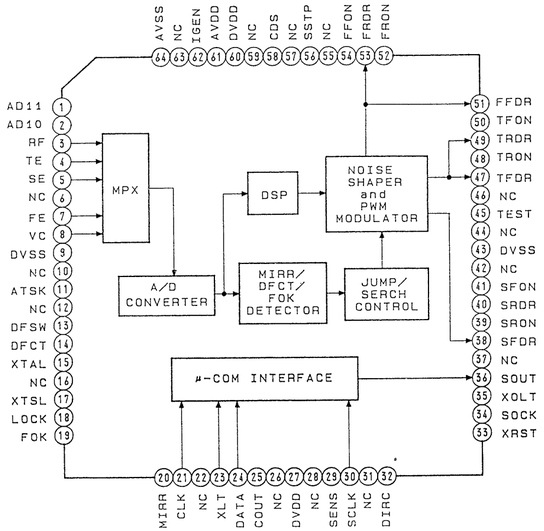


3-7. IC BLOCK DIAGRAMS

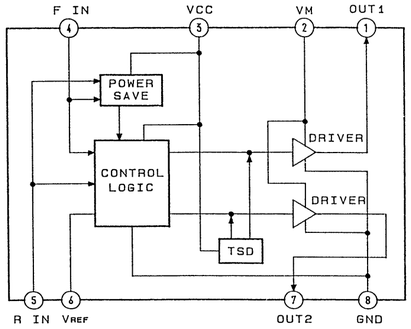
IC11, 21 TA8407F



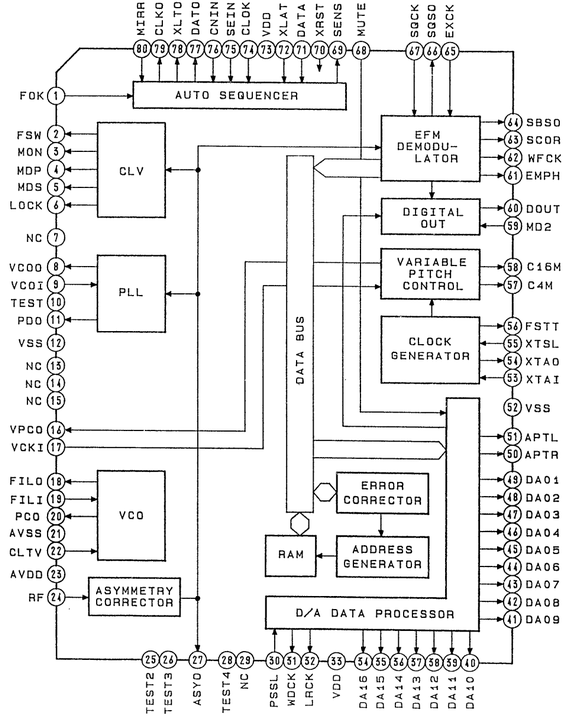
IC101 CXD2501Q


AVSS NC IGEN AVDD DVDD NC CDS NC SSTP NC FFON FRDR FRON
AD11 AD10 RF TE SE NC FE VC DVSS NC ATSK NC DFSW DFCT XTAL NC XTSL LOCK FOK
FFDR TFON TRDR TRON TFDR NC TEST NC DVSS NC SFON SRDR SRON SFDR NC SOUT XOLT SOCK XRST
MPX
DSP
NOISE SHAPER and PWM MODULATOR
A/D CONVERTER
MIRR/ DFCT/ FOK DETECTOR
JUMP/ SERCH CONTROL
μ-COM INTERFACE
MIRR CLK NC XLT DATA COUT NC DVDD NC SENS SCLK NC DIRC

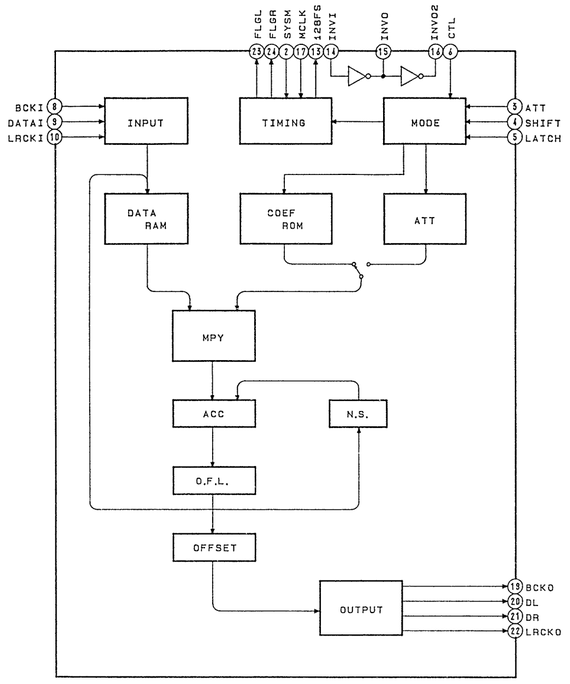
IC103 BA6287F



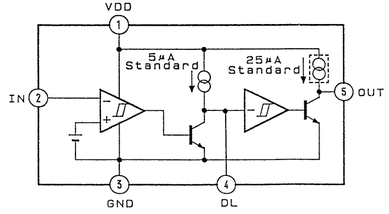
IC201 CXD2500AQ


MIRR CLKO XLTO DATO CNIN SEIN CLOK VDD XLAT DATA XRST SENS MUTE SQCK SQSO EXCK
AUTO SEQUENCER
FOK FSW MON MDP MDS LOCK NC VCOO VCOI TEST PDO VSS NC NC NC VPCO VCKI FILO FILI PCO AVSS CLTV AVDD RF
CLV
PLL
VCO
ASYMMETRY CORRECTOR
DATA BUS
EFM DEMODU-LATOR
DIGITAL OUT
VARIABLE PITCH CONTROL
CLOCK GENERATOR
ERROR CORRECTOR
ADDRESS GENERATOR
RAM
D/A DATA PROCESSOR
SBSO SCOR WFCK EMPH DOUT MD2 C16M C4M FSTT XTSL XTAO XTAI VSS APTL APTR DA01 DA02 DA03 DA04 DA05 DA06 DA07 DA08 DA09
TEST2 TEST3 ASYO TEST4 NC PSSL WDCK LRCK VDD DA16 DA15 DA14 DA13 DA12 DA11 DA10

IC601 CXD2560M



IC952 M51957AL



— WAVEFORM —

❶ 3.9Vp-p
10MHz
IC301 ㉙

❷ Approx 50mVp-p
IC101 ⑦ PLAY

❸ 0V
Approx 0.1Vp-p
IC101 ④ PLAY

❹ 1.6V, 0.4V, 0V
IC101 ③ PLAY

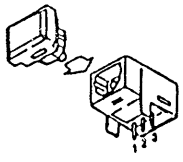
❺ 3.8Vp-p
4MHz
IC801 ㉛

❻ 5.3Vp-p
16MHz
IC602 ⑩

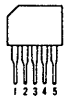
❼ 2.8Vp-p
45MHz
IC603 ⑧

3-8. SEMICONDUCTOR LEAD LAYOUTS

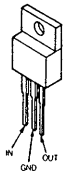
GP-1F31T



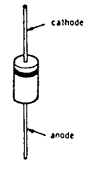
M51957AL



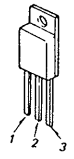
M5F7818L
M5F7918L



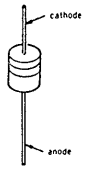
ERB83-004
RD5.1JS-B2
10E2
1N4148M



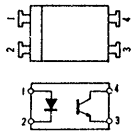
F10P10Q



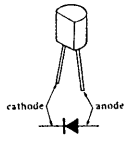
HZS12A2L
LTZ-MR19
RD3.3ES-B2
RD5.6JS-B1
RD4.7JS-B2



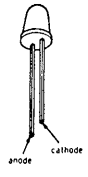
PC817



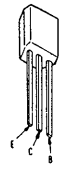
RD27JS-B2



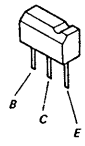
EAA5638S
EBG5638S



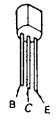
DTA144ES
DTC114ES



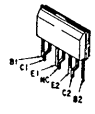
DTC114EF



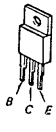
2SA1083E



2SA1349-GRBL
2SC3381-BL



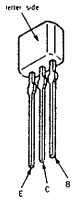
2SA1606-E
2SA985A-QP
2SC3514-Q
2SC2275A-QP
2SC4159-E
2SD1944-K



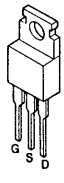
2SB734-34
2SD774-34

2SC1845-EA
2SC2545-E
2SC2878-B

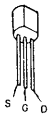
2SC3246-JK



2SJ76
2SK213



2SK246-GR
2SK246-Y
2SK30A-0

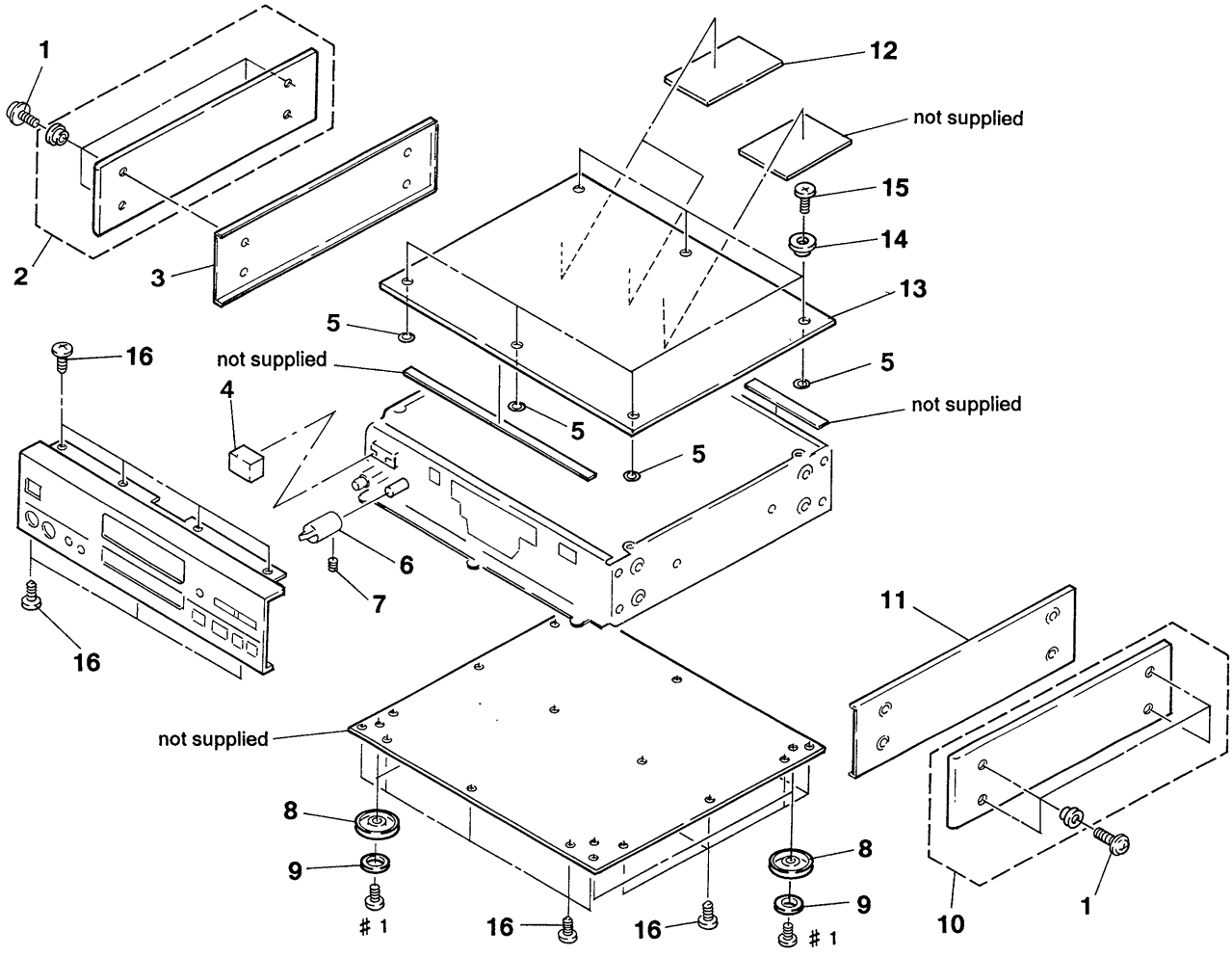


SECTION 4
EXPLODED VIEWS

NOTE:
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ Parts color ↑ Cabinet's color
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

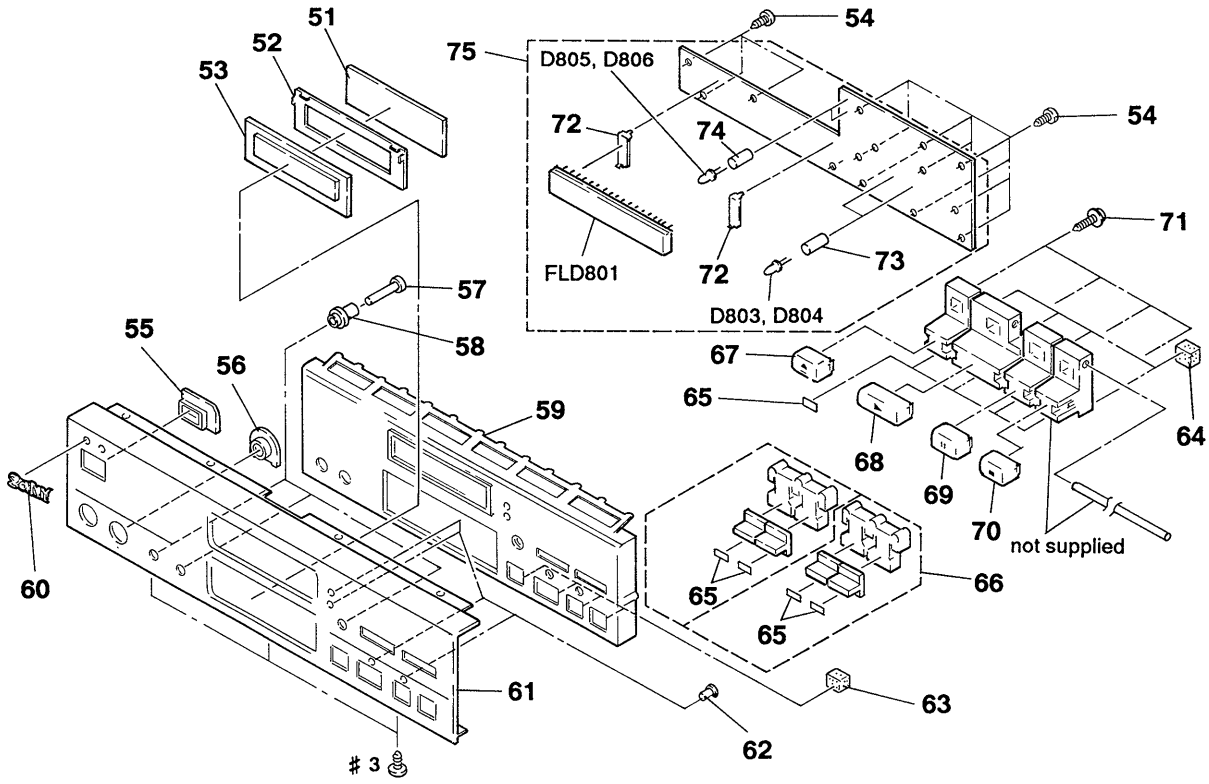
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

4-1. CABINET ASSEMBLY



Ref. No.	Part No.	Description	Remark
1	4-885-979-11	SCREW (4X25)	
2	X-4941-168-2	PLATE(L) ASSY, SIDE, ORNAMENTAL (US, Canadian, AEP: GOLD)	
2	X-4941-204-1	PRATE (L) ASSY, SIDE, ORNAMENTAL (AEP: BLACK)	
* 3	4-928-061-31	PLATE (LEFT), SIDE (US, Canadian, AEP: GOLD)	
* 3	4-928-061-21	PLATE (LEFT), SIDE (AEP: BLACK)	
4	X-4934-014-1	KNOB (POWER) ASSY (AEP: BLACK)	
4	X-4941-629-1	KNOB (POWER) ASSY (US, Canadian, AEP: GOLD)	
* 5	4-923-581-01	SPACER	
6	4-950-058-01	KNOB, VOLUME (AEP: BLACK)	
6	4-950-058-11	KNOB, VOLUME (US, Canadian, AEP: GOLD)	
7	3-701-505-00	SET SCREW, DOUBLE POINT 3X3	
8	4-928-028-01	BASE, FOOT (AEP: BLACK)	
8	4-928-028-11	BASE, FOOT (US, Canadian, AEP: GOLD)	
9	4-935-912-01	FOOT (CUSHION)	
10	X-4941-169-2	PLATE(R) ASSY, SIDE, ORNAMENTAL (US, Canadian, AEP: GOLD)	
10	X-4941-205-1	PRATE (R) ASSY, SIDE, ORNAMENTAL (AEP: BLACK)	
* 11	4-928-062-31	PLATE (RIGHT), SIDE (US, Canadian, AEP: GOLD)	
* 11	4-928-062-21	PLATE (RIGHT), SIDE (AEP: BLACK)	
12	3-831-441-11	FELT (C), ACOUSTIC ABSORBENT	
* 13	4-928-020-01	PLATE, TOP (AEP: BLACK)	
13	4-928-020-11	PLATE, TOP (US, Canadian, AEP: GOLD)	
14	4-924-237-01	ESCUTCHEON (A) (US, Canadian, AEP: GOLD)	
14	4-924-237-11	ESCUTCHEON (A) (AEP: BLACK)	
15	4-924-242-01	SCREW (M3X6), FLAT HEAD (US, Canadian, AEP: GOLD)	
15	4-924-242-11	SCREW (M3X6), FLAT HEAD (AEP: BLACK)	
16	4-929-074-01	SCREW (3X8)	

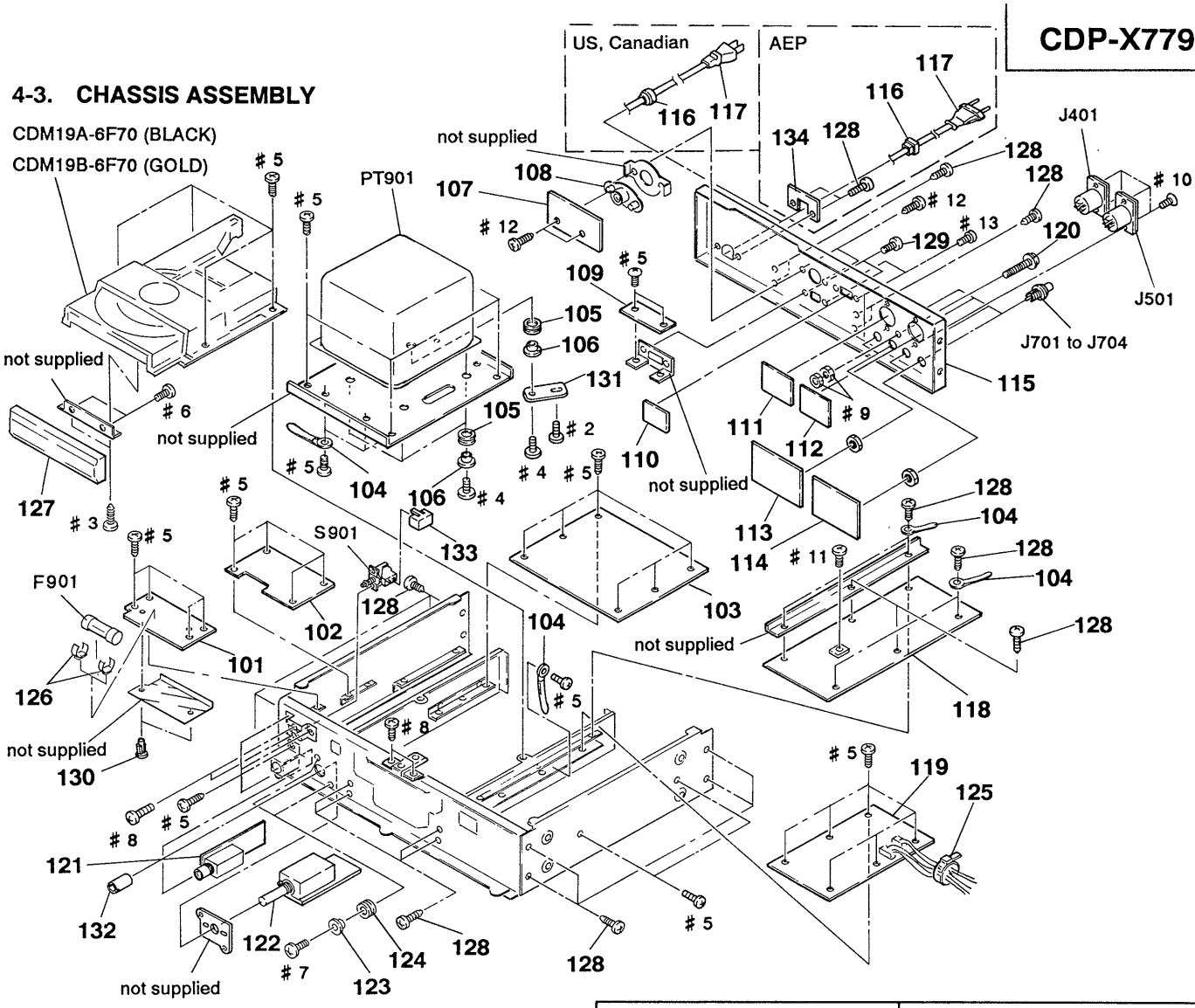
4-2. FRONT PANEL ASSEMBLY



Ref. No.	Part No.	Description	Remark
51	4-947-968-01	FILTER	
52	4-947-969-01	PLATE, ORNAMENTAL (US, Canadian, AEP: GOLD)	
52	4-947-969-11	PLATE, ORNAMENTAL (AEP: BLACK)	
53	4-947-967-01	WINDOW	
54	4-951-620-01	SCREW (2.6X8), +BVTP	
55	4-928-038-01	ESCUTCHEON (POWER) (AEP: BLACK)	
55	4-928-038-11	ESCUTCHEON (POWER) (US, Canadian, AEP: GOLD)	
56	4-942-459-01	ESCUTCHEON, KNOB (AEP: BLACK)	
56	4-942-459-11	ESCUTCHEON, KNOB (US, Canadian, AEP: GOLD)	
57	4-947-986-01	BUTTON (DIA. 3) (US, Canadian, AEP: GOLD)	
57	4-947-986-11	BUTTON (DIA. 3) (AEP: BLACK)	
* 58	4-947-987-01	GUIDE (BUTTON DIA. 3)	
59	X-4941-984-1	PANEL (BASE) ASSY (US, Canadian, AEP: GOLD)	
59	X-4942-323-1	PANEL (BASE) ASSY (AEP: BLACK)	
60	4-908-848-21	EMBLEM, SONY (US, Canadian, AEP: GOLD)	
60	4-908-848-01	EMBLEM, SONY (AEP: BLACK)	
61	4-947-960-01	PANEL, FRONT (US, Canadian, AEP: GOLD)	
61	4-947-960-11	PANEL, FRONT (AEP: BLACK)	
62	4-941-214-01	INDICATOR	
63	9-911-846-XX	CUSHION	

Ref. No.	Part No.	Description	Remark
64	9-911-845-XX	CUSHION	
65	3-831-441-11	SPACER	
66	A-4604-931-A	KNOB ASSY (US, Canadian, AEP: GOLD)	
66	A-4660-038-A	KNOB ASSY (AEP: BLACK)	
67	4-947-958-01	CAP (S), KNOB (US, Canadian, AEP: GOLD)	
67	4-947-958-31	CAP (S), KNOB (AEP: BLACK)	
68	4-947-957-01	CAP (L), KNOB (US, Canadian, AEP: GOLD)	
68	4-947-957-11	CAP (L), KNOB (AEP: BLACK)	
69	4-947-958-11	CAP (S), KNOB (US, Canadian, AEP: GOLD)	
69	4-947-958-51	CAP (S), KNOB (AEP: BLACK)	
70	4-947-958-21	CAP (S), KNOB (US, Canadian, AEP: GOLD)	
70	4-947-958-41	CAP (S), KNOB (AEP: BLACK)	
71	4-933-134-11	SCREW (+PTPWH M2.6X8)	
* 72	4-947-984-01	HOLDER (FL)	
* 73	4-923-532-21	SPACER, LED	
* 74	4-923-532-31	SPACER, LED	
* 75	A-4649-013-A	DISPLAY BOARD, COMPLETE	
D803	8-719-913-49	DIODE EBG5638S (PLAY)	
D804	8-719-913-47	DIODE EBG5638S (PAUSE)	
D805	8-719-913-47	DIODE EBG5638S (D/O ON)	
D806	8-719-913-49	DIODE EBG5638S (D/O OFF)	
FLD801	1-519-688-11	INDICATOR TUBE, FLUORESCENT	

4-3. CHASSIS ASSEMBLY

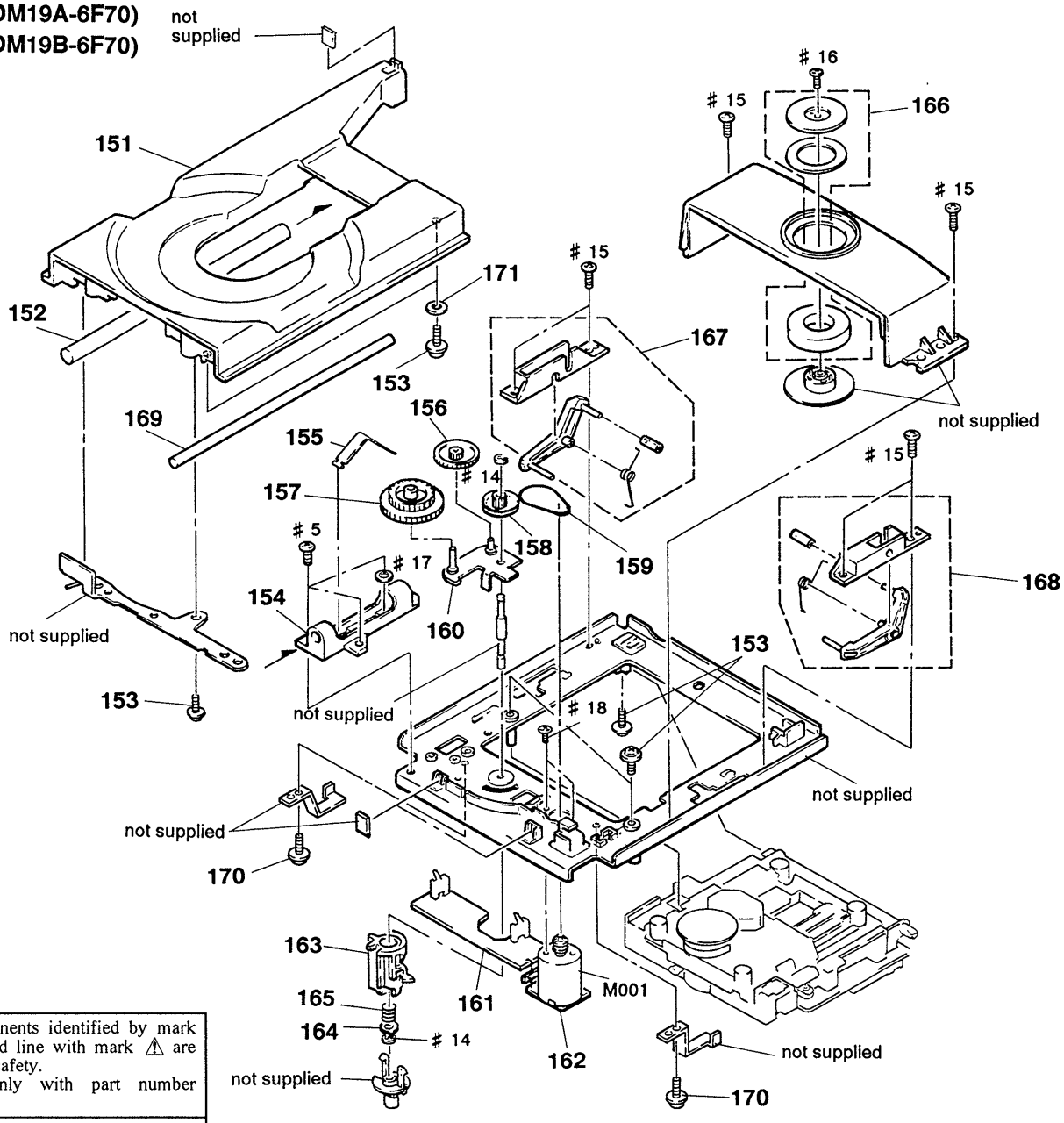


The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
* 101	1-641-751-11	AC BOARD	
* 102	A-4649-184-A	D POWER BOARD, COMPLETE	
* 103	A-4649-017-A	AU POWER BOARD, COMPLETE	
* 104	3-701-822-00	HOLDER, WIRE	
* 105	4-888-798-00	BUSHING, RUBBER	
106	4-928-068-01	COLLAR (C)	
* 107	1-641-754-11	COAX BOARD	
* 108	4-913-152-01	ESCUTCHEON, D/O	
* 109	1-641-755-11	OPT BOARD	
* 110	1-641-756-11	BALANCE SW BOARD	
* 111	1-641-752-11	BALANCE (L) BOARD	
* 112	1-641-753-11	BALANCE (R) BOARD	
* 113	1-641-749-11	VARIABLE BOARD	
* 114	1-641-748-11	FIX BOARD	
* 115	4-947-973-22	PANEL, BACK (AEP: BLACK)	
* 115	4-947-973-32	PANEL, BACK (US)	
* 115	4-947-973-42	PANEL, BACK (AEP: GOLD)	
* 115	4-947-973-52	PANEL, BACK (Canadian)	
* 116	3-703-244-00	BUSHING (2104), CORD (AEP)	
116	4-916-783-01	BUSHING, CORD (US, Canadian)	
⚠117	1-558-568-21	CORD, POWER (AEP)	
⚠117	1-690-958-11	CORD, POWER (US, Canadian)	
* 118	A-4649-018-A	AUDIO BOARD, COMPLETE	
* 119	A-4649-021-A	AUDIO SUB BOARD, COMPLETE	
120	4-886-821-51	SCREW, CASE, (M3X14)	
* 121	1-642-213-11	HP(B) BOARD (US, Canadian, AEP: GOLD)	
* 121	1-641-759-11	HP BOARD (AEP: BLACK)	
* 122	1-641-761-11	M. VR BOARD	
* 123	4-928-026-01	COLLAR (B)	
* 124	4-888-798-11	BUSHING, RUBBER	
125	3-655-653-21	BAND (TAITON), BINDING	
126	1-533-183-11	HOLDER, FUSE	
127	4-947-966-01	PANEL, LOADING (US, Canadian, AEP: GOLD)	
127	4-947-966-11	PANEL, LOADING (AEP: BLACK)	
128	4-929-074-01	SCREW (3X8)	
129	3-703-685-21	SCREW (+BV 3X8)	
130	3-531-576-11	RIVET	
* 131	4-952-424-01	PLATE (TRANSFORMER), GROUND	
* 132	4-942-456-01	BRAKET (VOL)	
133	3-575-524-00	COVER, POWER SWITCH	
* 134	4-923-873-01	BRACKET, CORD STOPPER (AEP: BLACK)	
* 134	4-923-873-11	BRACKET, CORD STOPPER (AEP: GOLD)	
⚠F901	1-532-215-00	FUSE, TIME-LAG (AEP)	
⚠F901	1-532-825-11	FUSE, GLASS TUBE (US, Canadian)	
J401	1-563-030-11	CONNECTOR (RECEPTACLE) 3P (BALANCE OUT L)	
J501	1-563-030-11	CONNECTOR (RECEPTACLE) 3P (BALANCE OUT R)	
J701	1-568-918-11	JACK, PIN 1P (FIXED R)	
J702	1-568-918-11	JACK, PIN 1P (FIXED L)	
J703	1-568-918-11	JACK, PIN 1P (VARIABLE R)	
J704	1-568-918-11	JACK, PIN 1P (VARIABLE L)	
⚠PT901	1-450-775-11	TRANSFORMER, POWER (US, Canadian)	
⚠PT901	1-450-776-11	TRANSFORMER, POWER (AEP)	
⚠S901	1-554-538-00	SWITCH, PUSH (AC POWER) (1 KEY)	

4-4. MECHANISM BLOCK ASSEMBLY (1)

(CDM19A-6F70)
(CDM19B-6F70)

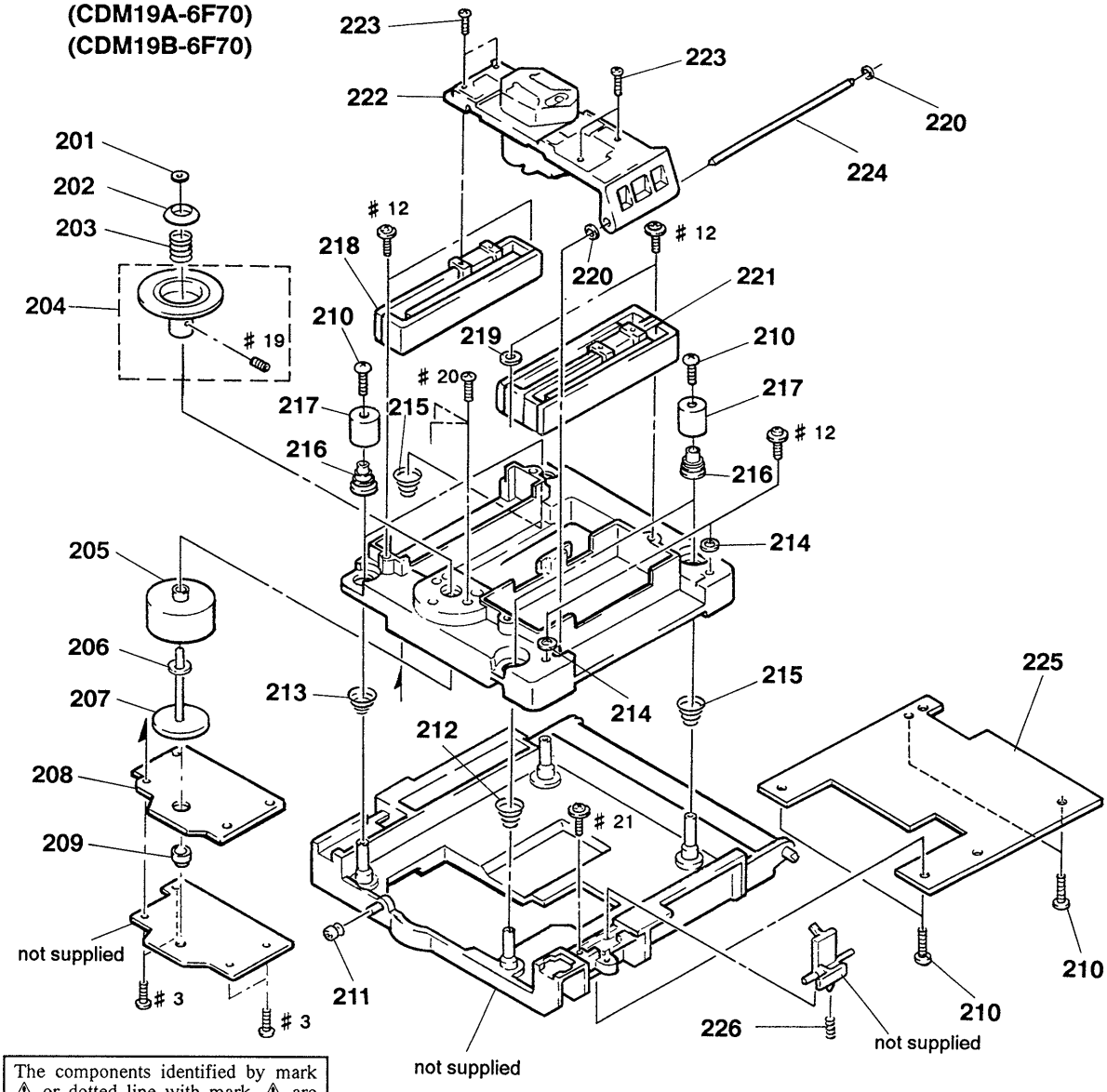


The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
151	4-948-353-01	TABLE, DISK (AEP: BLACK)	
151	4-948-353-11	TABLE, DISK (US, Canadian, AEP: GOLD)	
* 152	4-948-368-01	BAR (MAIN), GUIDE	
* 153	4-917-583-21	BRACKET, YOKE	
* 154	4-948-360-01	BEARING, LOADING	
* 155	4-927-648-01	SLIDER (GROUND)	
156	4-927-628-01	GEAR (C)	
157	4-927-620-01	GEAR (P)	
158	4-929-724-01	PULLEY (B)	
159	4-927-649-01	BELT	
160	X-4927-608-1	ARM ASSY, SWING	
* 161	1-641-764-11	SW BOARD	
* 162	1-641-765-11	L. MOTOR BOARD	
* 163	4-948-371-01	CAM (BU)	
164	4-927-654-01	WASHER (LIMITER)	
165	3-659-338-00	SPRING, COMPRESSION	
166	A-4604-912-A	MAGNET ASSY	
167	A-4604-913-A	LOCK (L) ASSY, STABLE	
168	A-4604-914-A	LOCK (R) ASSY, STABLE	
* 169	4-948-369-01	BAR (SUB), GUIDE	
170	3-703-685-21	SCREW (+BV 3X8)	
171	4-927-318-01	WASHER	
M001	A-4604-347-A	MOTOR (L) ASSY (LOADING)	

4-5. MECHANISM BLOCK ASSEMBLY (2)
(CDM19A-6F70)
(CDM19B-6F70)



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
201	4-947-420-01	RING (DIA. 2.53), RETAINING	
202	4-948-381-01	CAP, CENTERING	
203	4-908-213-01	SPRING, COMPRESSION	
204	X-4942-048-1	PULLEY ASSY, DISK	
205	4-948-382-02	BEARING (SPINDLE)	
206	3-701-439-11	WASHER	
* 207	A-4660-055-B	PULLEY ASSY, MOTOR	
* 208	A-4617-993-A	BSL BOARD, COMPLETE	
209	4-943-342-01	BEARING	
210	4-951-620-01	SCREW (2.6X8), +BVTP	
211	4-927-631-01	ROLLER (L)	
212	4-917-573-01	SPRING (E)	
213	4-948-375-01	SPRING (F), COIL	
214	4-927-318-01	WASHER	
215	4-917-571-01	SPRING (A)	
* 216	4-917-584-11	INSULATOR	
217	4-927-634-01	HOLDER (SP)	
218	A-4638-084-A	SENSOR ASSY, SPEED	
219	4-927-669-01	WASHER (BU)	
* 220	4-917-582-01	CUSHION, SLIDE	
221	A-4608-335-A	MOTOR ASSY, LINEAR	
⚠222	8-848-244-11	DEVICE, OPTICAL KSS-272A	
223	3-318-203-61	SCREW (B1.7X4), TAPPING	
* 224	4-910-431-01	SHAFT, SLIDE	
* 225	A-4649-006-A	SERVO (1) (A) BOARD, COMPLETE	
226	3-305-423-00	SPRING, COMPRESSION	

AC AU POWER

SECTION 5
ELECTRICAL PARTS LIST

NOTE:

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL: Metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F : nonflammable
- Color Indication of Appearance Parts Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ Parts color ↑ Cabinet's color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: μ , for example:
  uA...: μA..., uPA...: μPA...,
  uPB...: μPB..., uPC...: μPC...,
  uPD...: μPD...
- CAPACITORS
  uF : μF
- COILS
  uH : μH
- Hardware (# mark) list is given in the last of this parts list.

Ref. No.	Part No.	Description			Remark
*	1-641-751-11	AC BOARD			
		********			
		〈 CAPACITOR 〉			
⚠C901	1-161-744-00	CERAMIC	0.01uF	400V	
⚠C903	1-162-599-12	CERAMIC	0.0047uF 20%	400V	
		〈 CONNECTOR 〉			
CN901	1-564-321-00	PIN, CONNECTOR 2P			
* CN902	1-580-230-11	PIN, CONNECTOR (PC BOARD) 3P			
		〈 BASE POST 〉			
LP901	1-535-139-00	BASE POST 22MM (10MM PITCH) 2P			
LP902	1-535-139-00	BASE POST 22MM (10MM PITCH) 2P			
		〈 COIL 〉			
T901	1-421-915-11	COIL, LINE FILTER			
		〈 FUSE 〉			
⚠F901	1-532-215-00	FUSE, TIME-LAG (AEP)			
⚠F902	1-532-825-11	FUSE, GLASS TUBE (US, Canadian)			
**********					
*	A-4649-017-A	AU POWER BOARD, COMPLETE			
		**********			
		〈 BUS BAR 〉			
* BUS910	1-566-959-11	BAR, BUS			
* BUS911	1-566-959-11	BAR, BUS			
* BUS912	1-580-302-11	BAR, BUS 4P			
* BUS913	1-580-302-11	BAR, BUS 4P			
* BUS914	1-691-279-11	BUS BAR 5P			
		〈 CAPACITOR 〉			
C910	1-136-177-00	FILM	1uF 5%	50V	
C911	1-106-343-00	MYLAR	1000PF 5%	200V	
C912	1-125-709-11	ELECT	4700uF 20%	63V	
C913	1-130-495-00	MYLAR	0.1uF 5%	50V	
C914	1-107-169-00	MICA	100PF 5%	500V	
C915	1-107-169-00	MICA	100PF 5%	500V	
C916	1-107-169-00	MICA	100PF 5%	500V	
C917	1-124-911-11	ELECT	220uF 20%	50V	
C918	1-125-663-11	ELECT	1200uF 20%	63V	
C919	1-107-210-00	MICA	22PF 5%	500V	
C921	1-136-177-00	FILM	1uF 5%	50V	
C922	1-106-343-00	MYLAR	1000PF 5%	200V	
C923	1-124-911-11	ELECT	220uF 20%	50V	
C924	1-124-572-11	ELECT	100uF 20%	63V	
C925	1-107-202-00	MICA	10PF 5%	500V	
C932	1-125-709-11	ELECT	4700uF 20%	63V	
C933	1-130-495-00	MYLAR	0.1uF 5%	50V	
C934	1-107-169-00	MICA	100PF 5%	500V	
C935	1-107-169-00	MICA	100PF 5%	500V	
C936	1-107-169-00	MICA	100PF 5%	500V	
C937	1-124-911-11	ELECT	220uF 20%	50V	
C938	1-125-663-11	ELECT	1200uF 20%	63V	
C939	1-107-210-00	MICA	22PF 5%	500V	
C943	1-124-911-11	ELECT	220uF 20%	50V	
C944	1-124-572-11	ELECT	100uF 20%	63V	
C945	1-107-202-00	MICA	10PF 5%	500V	
		〈 CONNECTOR 〉			
* CN910	1-573-262-41	PIN, CONNECTOR 3P			
* CN911	1-573-262-21	PIN, CONNECTOR 3P			
* CN912	1-573-263-11	PIN, CONNECTOR 4P			
* CN913	1-573-265-11	PIN, CONNECTOR 6P			
* CN914	1-573-262-31	PIN, CONNECTOR 3P			
* CN915	1-573-261-11	PIN, CONNECTOR 2P			
		〈 DIODE 〉			
D910	8-719-210-29	DIODE	F10P10Q		
D911	8-719-210-29	DIODE	F10P10Q		
D912	8-719-210-29	DIODE	F10P10Q		
D913	8-719-210-29	DIODE	F10P10Q		
D914	8-719-988-53	DIODE	LTZ-MR19		
D915	8-719-114-36	DIODE	RD5.6JS-B1		
D930	8-719-210-29	DIODE	F10P10Q		
D931	8-719-210-29	DIODE	F10P10Q		
D932	8-719-210-29	DIODE	F10P10Q		
D933	8-719-210-29	DIODE	F10P10Q		
D934	8-719-988-53	DIODE	LTZ-MR19		
D935	8-719-114-36	DIODE	RD5.6JS-B1		

Ref. No.	Part No.	Description				Remark
		〈 IC 〉				
IC910	8-759-604-87	IC M5F7818L				
IC930	8-759-604-91	IC M5F7918L				
		〈 BASE POST 〉				
* LP910	1-535-140-00	BASE POST 22MM (10MM PITCH) 3P				
		〈 IC LINK 〉				
⚠PS910	1-532-675-00	LINK, IC 1.5A				
⚠PS911	1-532-637-00	LINK, IC 1.0A				
⚠PS931	1-532-675-00	LINK, IC 1.5A				
⚠PS932	1-532-637-00	LINK, IC 1.0A				
		〈 TRANSISTOR 〉				
Q910	8-729-322-40	TRANSISTOR 2SA1083E				
Q911	8-729-354-52	TRANSISTOR 2SC2545-E				
Q912	8-729-322-40	TRANSISTOR 2SA1083E				
Q913	8-729-354-52	TRANSISTOR 2SC2545-E				
Q914	8-729-202-72	TRANSISTOR 2SC3381-BL				
Q915	8-729-202-72	TRANSISTOR 2SC3381-BL				
Q916	8-729-354-52	TRANSISTOR 2SC2545-E				
Q917	8-729-354-52	TRANSISTOR 2SC2545-E				
Q918	8-729-141-10	TRANSISTOR 2SA985A-QP				
Q919	8-729-201-05	TRANSISTOR 2SC2878-B				
Q920	8-729-307-65	TRANSISTOR 2SJ76				
Q930	8-729-354-52	TRANSISTOR 2SC2545-E				
Q931	8-729-354-52	TRANSISTOR 2SC2545-E				
Q932	8-729-354-52	TRANSISTOR 2SC2545-E				
Q933	8-729-322-40	TRANSISTOR 2SA1083E				
Q934	8-729-232-00	TRANSISTOR 2SA1349-GRBL				
Q935	8-729-232-00	TRANSISTOR 2SA1349-GRBL				
Q936	8-729-322-40	TRANSISTOR 2SA1083E				
Q937	8-729-322-40	TRANSISTOR 2SA1083E				
Q938	8-729-141-58	TRANSISTOR 2SC2275A-QP				
Q939	8-729-322-40	TRANSISTOR 2SA1083E				
Q940	8-729-321-35	TRANSISTOR 2SK213				
		〈 RESISTOR 〉				
⚠R900	1-212-877-11	FUSIBLE	68	5%	1/4W	F
⚠R910	1-212-875-00	FUSIBLE	56	5%	1/4W	F
R911	1-259-585-11	CARBON	18K	1%	1/2W	
R912	1-259-539-11	CARBON	220	1%	1/2W	
R913	1-259-541-11	CARBON	270	1%	1/2W	
R914	1-259-571-11	CARBON	4.7K	1%	1/2W	
R915	1-259-557-11	CARBON	1.2K	1%	1/2W	
R916	1-259-519-11	CARBON	33	1%	1/2W	
R917	1-259-507-11	CARBON	10	1%	1/2W	
R918	1-259-507-11	CARBON	10	1%	1/2W	
R919	1-259-507-11	CARBON	10	1%	1/2W	
R920	1-259-507-11	CARBON	10	1%	1/2W	
R921	1-259-555-11	CARBON	1K	1%	1/2W	
R922	1-259-555-11	CARBON	1K	1%	1/2W	
R923	1-259-507-11	CARBON	10	1%	1/2W	
R924	1-249-799-11	CARBON	750	1%	1/2W	
R925	1-259-547-11	CARBON	470	1%	1/2W	
⚠R926	1-217-997-11	FUSIBLE	10	5%	1/2W	
R931	1-259-585-11	CARBON	18K	1%	1/2W	
R932	1-259-539-11	CARBON	220	1%	1/2W	
R933	1-259-541-11	CARBON	270	1%	1/2W	
R934	1-259-571-11	CARBON	4.7K	1%	1/2W	
R935	1-259-557-11	CARBON	1.2K	1%	1/2W	
R936	1-259-519-11	CARBON	33	1%	1/2W	
R937	1-259-507-11	CARBON	10	1%	1/2W	
R938	1-259-507-11	CARBON	10	1%	1/2W	
R939	1-259-507-11	CARBON	10	1%	1/2W	
R940	1-259-507-11	CARBON	10	1%	1/2W	
R941	1-259-555-11	CARBON	1K	1%	1/2W	
R942	1-259-555-11	CARBON	1K	1%	1/2W	
R943	1-259-507-11	CARBON	10	1%	1/2W	
R944	1-249-799-11	CARBON	750	1%	1/2W	
R945	1-259-547-11	CARBON	470	1%	1/2W	
⚠R946	1-217-997-11	FUSIBLE	10	5%	1/2W	
**********						
*	A-4649-018-A	AUDIO BOARD, COMPLETE				
		**********				
		〈 BUS BAR 〉				
* BUS1	1-569-137-11	BUS BAR 2P				
* BUS2	1-569-137-11	BUS BAR 2P				
* BUS3	1-569-137-11	BUS BAR 2P				
* BUS3	1-691-275-11	BUS BAR				
* BUS4	1-569-137-11	BUS BAR 2P				
		〈 CAPACITOR 〉				
C402	1-136-165-00	FILM	0.1uF	5%	50V	
C403	1-126-052-11	ELECT	100uF	20%	50V	
C404	1-162-806-11	CERAMIC	0.1uF	10%	50V	
C405	1-162-806-11	CERAMIC	0.1uF	10%	50V	
C406	1-162-806-11	CERAMIC	0.1uF	10%	50V	
C407	1-162-806-11	CERAMIC	0.1uF	10%	50V	
C408	1-126-052-11	ELECT	100uF	20%	50V	
C409	1-162-806-11	CERAMIC	0.1uF	10%	50V	
C410	1-126-052-11	ELECT	100uF	20%	50V	
C411	1-162-806-11	CERAMIC	0.1uF	10%	50V	
C412	1-162-806-11	CERAMIC	0.1uF	10%	50V	
C413	1-126-052-11	ELECT	100uF	20%	50V	
C414	1-162-806-11	CERAMIC	0.1uF	10%	50V	
C415	1-162-806-11	CERAMIC	0.1uF	10%	50V	
C416	1-126-052-11	ELECT	100uF	20%	50V	
C417	1-136-165-00	FILM	0.1uF	5%	50V	
C418	1-124-122-11	ELECT	100uF	20%	50V	
C420	1-136-810-11	FILM	220PF	5%	100V	
C421	1-136-810-11	FILM	220PF	5%	100V	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

AUDIO

Ref. No.	Part No.	Description				Remark
C424	1-136-810-11	FILM	220PF	5%	100V	
C425	1-136-810-11	FILM	220PF	5%	100V	
C426	1-136-811-11	FILM	330PF	5%	100V	
C427	1-136-811-11	FILM	330PF	5%	100V	
C428	1-136-192-11	FILM	0.0018uF	2%	100V	
C429	1-136-192-11	FILM	0.0018uF	2%	100V	
C430	1-136-192-11	FILM	0.0018uF	2%	100V	
C432	1-137-508-11	FILM	2.2uF	10%	63V	
C433	1-107-169-00	MICA	100PF	5%	500V	
C434	1-107-202-00	MICA	10PF	5%	500V	
C435	1-107-169-00	MICA	100PF	5%	500V	
C450	1-130-480-00	MYLAR	0.0056uF	5%	50V	
C501	1-124-122-11	ELECT	100uF	20%	50V	
C502	1-136-165-00	FILM	0.1uF	5%	50V	
C503	1-126-052-11	ELECT	100uF	20%	50V	
C504	1-162-806-11	CERAMIC	0.1uF	10%	50V	
C505	1-162-806-11	CERAMIC	0.1uF	10%	50V	
C506	1-162-806-11	CERAMIC	0.1uF	10%	50V	
C507	1-162-806-11	CERAMIC	0.1uF	10%	50V	
C508	1-126-052-11	ELECT	100uF	20%	50V	
C509	1-162-806-11	CERAMIC	0.1uF	10%	50V	
C510	1-126-052-11	ELECT	100uF	20%	50V	
C511	1-162-806-11	CERAMIC	0.1uF	10%	50V	
C512	1-162-806-11	CERAMIC	0.1uF	10%	50V	
C513	1-126-052-11	ELECT	100uF	20%	50V	
C514	1-162-806-11	CERAMIC	0.1uF	10%	50V	
C515	1-162-806-11	CERAMIC	0.1uF	10%	50V	
C516	1-126-052-11	ELECT	100uF	20%	50V	
C517	1-136-165-00	FILM	0.1uF	5%	50V	
C521	1-136-810-11	FILM	220PF	5%	100V	
C522	1-136-810-11	FILM	220PF	5%	100V	
C525	1-136-810-11	FILM	220PF	5%	100V	
C526	1-136-810-11	FILM	220PF	5%	100V	
C527	1-136-811-11	FILM	330PF	5%	100V	
C528	1-136-811-11	FILM	330PF	5%	100V	
C529	1-136-192-11	FILM	0.0018uF	2%	100V	
C530	1-136-192-11	FILM	0.0018uF	2%	100V	
C531	1-136-192-11	FILM	0.0018uF	2%	100V	
C533	1-137-508-11	FILM	2.2uF	10%	63V	
C534	1-107-169-00	MICA	100PF	5%	500V	
C535	1-107-202-00	MICA	10PF	5%	500V	
C536	1-107-169-00	MICA	100PF	5%	500V	
C550	1-130-480-00	MYLAR	0.0056uF	5%	50V	
C600	1-164-159-11	CERAMIC	0.1uF		50V	
C601	1-124-122-11	ELECT	100uF	20%	50V	
C602	1-136-165-00	FILM	0.1uF	5%	50V	
C603	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C604	1-136-165-00	FILM	0.1uF	5%	50V	
C605	1-161-494-00	CERAMIC	0.022uF		25V	
C606	1-161-494-00	CERAMIC	0.022uF		25V	
C607	1-136-165-00	FILM	0.1uF	5%	50V	
C608	1-124-122-11	ELECT	100uF	20%	50V	
C609	1-136-165-00	FILM	0.1uF	5%	50V	
C610	1-126-052-11	ELECT	100uF	20%	50V	
C611	1-124-572-11	ELECT	100uF	20%	63V	
C612	1-162-806-11	CERAMIC	0.1uF	10%	50V	
C613	1-107-202-00	MICA	10PF	5%	500V	
C614	1-107-202-00	MICA	10PF	5%	500V	
C615	1-125-663-11	ELECT	1200uF	20%	63V	
C616	1-107-202-00	MICA	10PF	5%	500V	
C617	1-130-483-00	MYLAR	0.01uF	5%	50V	
C618	1-130-483-00	MYLAR	0.01uF	5%	50V	
C619	1-162-806-11	CERAMIC	0.1uF	10%	50V	
C620	1-124-572-11	ELECT	100uF	20%	63V	
C621	1-137-507-11	FILM	1uF	10%	63V	
C622	1-137-507-11	FILM	1uF	10%	63V	
C623	1-137-507-11	FILM	1uF	10%	63V	
C624	1-137-507-11	FILM	1uF	10%	63V	
C625	1-164-159-11	CERAMIC	0.1uF		50V	
C626	1-164-159-11	CERAMIC	0.1uF		50V	

〈 CONNECTOR 〉

* CN401	1-573-263-11	PIN, CONNECTOR 4P	
* CN402	1-573-262-41	PIN, CONNECTOR 3P	
* CN403	1-573-262-11	PIN, CONNECTOR 3P	
* CN501	1-573-263-21	PIN, CONNECTOR 4P	
* CN502	1-573-262-31	PIN, CONNECTOR 3P	
* CN503	1-573-262-21	PIN, CONNECTOR 3P	
* CN601	1-569-997-11	PIN, CONNECTOR (PC BOARD) 10P	
* CN602	1-569-993-11	PIN, CONNECTOR (PC BOARD) 6P	
* CN603	1-573-261-11	PIN, CONNECTOR 2P	
* CN604	1-573-262-11	PIN, CONNECTOR 3P	
* CN606	1-573-261-41	PIN, CONNECTOR 2P	
* CN607	1-573-263-11	PIN, CONNECTOR 4P	
* CN608	1-573-262-31	PIN, CONNECTOR 3P	
* CN609	1-573-261-11	PIN, CONNECTOR 2P	

〈 DIODE 〉

D401	8-719-988-53	DIODE	LTZ-MR19
D402	8-719-988-53	DIODE	LTZ-MR19
D403	8-719-987-63	DIODE	1N4148M
D405	8-719-987-63	DIODE	1N4148M
D450	8-719-987-63	DIODE	1N4148M
D501	8-719-988-53	DIODE	LTZ-MR19
D502	8-719-988-53	DIODE	LTZ-MR19
D503	8-719-987-63	DIODE	1N4148M
D505	8-719-987-63	DIODE	1N4148M
D550	8-719-987-63	DIODE	1N4148M
D600	8-719-987-63	DIODE	1N4148M
D601	8-719-987-63	DIODE	1N4148M

Ref. No.	Part No.	Description	Remark
D602	8-719-987-63	DIODE 1N4148M	
D603	8-719-988-53	DIODE LTZ-MR19	
D604	8-719-114-26	DIODE RD4.7JS-B2	
D605	8-719-114-26	DIODE RD4.7JS-B2	
D606	8-719-988-53	DIODE LTZ-MR19	
D607	8-719-988-53	DIODE LTZ-MR19	
D608	8-719-114-30	DIODE RD5.1JS-B2	
D610	8-719-987-63	DIODE 1N4148M	
		〈 IC 〉	
IC401	8-759-044-10	IC CXD2562Q	
IC402	8-759-900-72	IC NE5532P	
IC403	8-759-900-72	IC NE5532P	
IC404	8-759-900-72	IC NE5532P	
IC405	8-759-971-80	IC AD712JN	
IC406	8-759-998-79	IC OPA27GP	
IC501	8-759-044-10	IC CXD2562Q	
IC502	8-759-900-72	IC NE5532P	
IC503	8-759-900-72	IC NE5532P	
IC504	8-759-900-72	IC NE5532P	
IC505	8-759-971-80	IC AD712JN	
IC506	8-759-998-79	IC OPA27GP	
IC601	8-752-342-65	IC CXD2560M	
IC602	8-759-917-18	IC SN74HCU04N	
IC603	8-759-233-64	IC TC74HCU04AF	
IC604	8-759-900-72	IC NE5532P	
		〈 COIL 〉	
L401	1-410-969-11	INDUCTOR 4.7uH	
L402	1-410-971-11	INDUCTOR 10uH	
L501	1-410-969-11	INDUCTOR 4.7uH	
L502	1-410-971-11	INDUCTOR 10uH	
L601	1-410-970-11	INDUCTOR 6.8uH	
		〈 PHOTO INTERUPTER 〉	
PH401	8-719-902-56	DIODE PC817	
PH501	8-719-902-56	DIODE PC817	
		〈 TRANSISTOR 〉	
Q401	8-729-322-40	TRANSISTOR 2SA1083E	
Q402	8-729-184-53	TRANSISTOR 2SC1845-EA	
Q403	8-729-184-53	TRANSISTOR 2SC1845-EA	
Q404	8-729-184-53	TRANSISTOR 2SC1845-EA	
Q405	8-729-321-35	TRANSISTOR 2SK213	
Q406	8-729-307-65	TRANSISTOR 2SJ76	
Q407	8-729-224-62	TRANSISTOR 2SK246-GR	
Q408	8-729-201-05	TRANSISTOR 2SC2878-B	
Q450	8-729-900-80	TRANSISTOR DTC114ES	
Q501	8-729-322-40	TRANSISTOR 2SA1083E	
Q502	8-729-184-53	TRANSISTOR 2SC1845-EA	
Q503	8-729-184-53	TRANSISTOR 2SC1845-EA	
Q504	8-729-184-53	TRANSISTOR 2SC1845-EA	
Q505	8-729-321-35	TRANSISTOR 2SK213	
Q506	8-729-307-65	TRANSISTOR 2SJ76	
Q507	8-729-224-62	TRANSISTOR 2SK246-GR	
Q508	8-729-201-05	TRANSISTOR 2SC2878-B	
Q550	8-729-900-80	TRANSISTOR DTC114ES	
Q601	8-729-900-65	TRANSISTOR DTA144ES	
Q602	8-729-322-40	TRANSISTOR 2SA1083E	
Q603	8-729-620-23	TRANSISTOR 2SC3246-JK	
Q604	8-729-104-18	TRANSISTOR 2SC3514	
Q605	8-729-307-65	TRANSISTOR 2SJ76	
Q606	8-729-322-40	TRANSISTOR 2SA1083E	
Q607	8-729-184-53	TRANSISTOR 2SC1845-EA	
Q608	8-729-184-53	TRANSISTOR 2SC1845-EA	
Q609	8-729-203-02	TRANSISTOR 2SK30A-O	
		〈 RESISTOR 〉	
R401	1-249-947-11	CARBON 10K 1% 1/4W	
R402	1-249-947-11	CARBON 10K 1% 1/4W	
R403	1-249-947-11	CARBON 10K 1% 1/4W	
R404	1-249-947-11	CARBON 10K 1% 1/4W	
R405	1-249-947-11	CARBON 10K 1% 1/4W	
R406	1-249-947-11	CARBON 10K 1% 1/4W	
R407	1-249-947-11	CARBON 10K 1% 1/4W	
R408	1-249-947-11	CARBON 10K 1% 1/4W	
R409	1-249-944-11	CARBON 7.5K 1% 1/4W	
R410	1-249-944-11	CARBON 7.5K 1% 1/4W	
R411	1-249-944-11	CARBON 7.5K 1% 1/4W	
R412	1-249-944-11	CARBON 7.5K 1% 1/4W	
R417	1-249-944-11	CARBON 7.5K 1% 1/4W	
R418	1-249-944-11	CARBON 7.5K 1% 1/4W	
R419	1-249-945-11	CARBON 8.2K 1% 1/4W	
R420	1-249-945-11	CARBON 8.2K 1% 1/4W	
R421	1-247-721-11	CARBON 4.7K 5% 1/4W	
R422	1-247-721-11	CARBON 4.7K 5% 1/4W	
R423	1-249-929-11	CARBON 1.8K 1% 1/4W	
R424	1-249-929-11	CARBON 1.8K 1% 1/4W	
R425	1-249-929-11	CARBON 1.8K 1% 1/4W	
R426	1-249-929-11	CARBON 1.8K 1% 1/4W	
R427	1-249-977-11	CARBON 180K 1% 1/4W	
R428	1-247-713-11	CARBON 1K 5% 1/4W	
R429	1-214-730-00	METAL 1.1K 1% 1/4W	
R430	1-249-462-11	CARBON 22K 5% 1/4W	
R431	1-249-915-11	CARBON 470 1% 1/4W	
R432	1-249-948-11	CARBON 11K 1% 1/4W	
R433	1-249-940-11	CARBON 5.1K 1% 1/4W	
R434	1-249-948-11	CARBON 11K 1% 1/4W	
R435	1-249-940-11	CARBON 5.1K 1% 1/4W	
R436	1-249-915-11	CARBON 470 1% 1/4W	

AUDIO

Ref. No.	Part No.	Description				Remark
R437	1-259-531-11	CARBON	100	1%	1/2W	
R438	1-259-531-11	CARBON	100	1%	1/2W	
R439	1-259-519-11	CARBON	33	1%	1/2W	
R440	1-259-519-11	CARBON	33	1%	1/2W	
R441	1-249-465-11	CARBON	47K	5%	1/4W	
R442	1-259-500-11	CARBON	1M	5%	1/6W	
R444	1-259-519-11	CARBON	33	1%	1/2W	
R445	1-249-586-11	CARBON	27K	5%	1/4W	
R446	1-249-465-11	CARBON	47K	5%	1/4W	
R456	1-259-426-11	CARBON	820	5%	1/6W	
R457	1-259-442-11	CARBON	3.9K	5%	1/6W	
R458	1-259-450-11	CARBON	8.2K	5%	1/6W	
R459	1-259-472-11	CARBON	68K	5%	1/6W	
R501	1-249-947-11	CARBON	10K	1%	1/4W	
R502	1-249-947-11	CARBON	10K	1%	1/4W	
R503	1-249-947-11	CARBON	10K	1%	1/4W	
R504	1-249-947-11	CARBON	10K	1%	1/4W	
R505	1-249-947-11	CARBON	10K	1%	1/4W	
R506	1-249-947-11	CARBON	10K	1%	1/4W	
R507	1-249-947-11	CARBON	10K	1%	1/4W	
R508	1-249-947-11	CARBON	10K	1%	1/4W	
R509	1-249-944-11	CARBON	7.5K	1%	1/4W	
R510	1-249-944-11	CARBON	7.5K	1%	1/4W	
R511	1-249-944-11	CARBON	7.5K	1%	1/4W	
R512	1-249-944-11	CARBON	7.5K	1%	1/4W	
R517	1-249-944-11	CARBON	7.5K	1%	1/4W	
R518	1-249-944-11	CARBON	7.5K	1%	1/4W	
R519	1-249-945-11	CARBON	8.2K	1%	1/4W	
R520	1-249-945-11	CARBON	8.2K	1%	1/4W	
R521	1-247-721-11	CARBON	4.7K	5%	1/4W	
R522	1-249-929-11	CARBON	1.8K	1%	1/4W	
R523	1-249-929-11	CARBON	1.8K	1%	1/4W	
R524	1-249-929-11	CARBON	1.8K	1%	1/4W	
R525	1-249-929-11	CARBON	1.8K	1%	1/4W	
R526	1-249-977-11	CARBON	180K	1%	1/4W	
R527	1-247-713-11	CARBON	1K	5%	1/4W	
R528	1-214-730-00	METAL	1.1K	1%	1/4W	
R529	1-249-462-11	CARBON	22K	5%	1/4W	
R530	1-249-915-11	CARBON	470	1%	1/4W	
R531	1-249-948-11	CARBON	11K	1%	1/4W	
R532	1-249-940-11	CARBON	5.1K	1%	1/4W	
R533	1-249-948-11	CARBON	11K	1%	1/4W	
R534	1-249-940-11	CARBON	5.1K	1%	1/4W	
R535	1-249-915-11	CARBON	470	1%	1/4W	
R536	1-259-531-11	CARBON	100	1%	1/2W	
R537	1-259-531-11	CARBON	100	1%	1/2W	
R538	1-259-519-11	CARBON	33	1%	1/2W	
R539	1-259-519-11	CARBON	33	1%	1/2W	
R540	1-249-465-11	CARBON	47K	5%	1/4W	
R541	1-249-465-11	CARBON	47K	5%	1/4W	
R542	1-259-500-11	CARBON	1M	5%	1/6W	
R544	1-259-519-11	CARBON	33	1%	1/2W	
R545	1-249-586-11	CARBON	27K	5%	1/4W	
R546	1-247-721-11	CARBON	4.7K	5%	1/4W	
R556	1-259-426-11	CARBON	820	5%	1/6W	
R557	1-249-947-11	CARBON	10K	1%	1/4W	
R557	1-259-442-11	CARBON	3.9K	5%	1/6W	
R558	1-259-450-11	CARBON	8.2K	5%	1/6W	
R559	1-259-472-11	CARBON	68K	5%	1/6W	
R600	1-259-404-11	CARBON	100	5%	1/6W	
R601	1-259-428-11	CARBON	1K	5%	1/6W	
R602	1-259-420-11	CARBON	470	5%	1/6W	
R603	1-259-420-11	CARBON	470	5%	1/6W	
R604	1-259-420-11	CARBON	470	5%	1/6W	
R605	1-259-420-11	CARBON	470	5%	1/6W	
R606	1-259-416-11	CARBON	330	5%	1/6W	
R607	1-259-448-11	CARBON	6.8K	5%	1/6W	
R608	1-259-424-11	CARBON	680	5%	1/6W	
R609	1-259-428-11	CARBON	1K	5%	1/6W	
R610	1-259-488-11	CARBON	330K	5%	1/6W	
R613	1-259-426-11	CARBON	820	5%	1/6W	
R614	1-259-412-11	CARBON	220	5%	1/6W	
R615	1-259-444-11	CARBON	4.7K	5%	1/6W	
R616	1-259-380-11	CARBON	10	5%	1/6W	
R617	1-249-947-11	CARBON	10K	1%	1/4W	
R618	1-247-700-11	CARBON	100	5%	1/4W	
R619	1-247-700-11	CARBON	100	5%	1/4W	
R620	1-247-721-11	CARBON	4.7K	5%	1/4W	
R621	1-247-721-11	CARBON	4.7K	5%	1/4W	
R622	1-247-700-11	CARBON	100	5%	1/4W	
R623	1-249-907-11	CARBON	220	1%	1/4W	
R624	1-249-907-11	CARBON	220	1%	1/4W	
R625	1-249-497-11	CARBON	33K	5%	1/4W	
R626	1-247-700-11	CARBON	100	5%	1/4W	
R627	1-259-476-11	CARBON	100K	5%	1/6W	
R628	1-259-488-11	CARBON	330K	5%	1/6W	
R629	1-259-484-11	CARBON	220K	5%	1/6W	

〈 RELAY 〉

RY401	1-515-727-11	RELAY
RY501	1-515-727-11	RELAY

〈 THERMISTOR 〉

TH601	1-806-882-11	THERMISTOR, POSITIVE
TH602	1-806-882-11	THERMISTOR, POSITIVE

〈 FILTER 〉

X601	1-577-685-11	FILTER, CRYSTAL (16 MHz)

Ref. No.	Part No.	Description			Remark
		〈 VIBRATOR 〉			
X602	1-577-686-11	VIBRATOR, CRYSTAL (45 MHz)			
**********					
*	A-4649-021-A	AUDIO SUB BOARD, COMPLETE			
		**********			
		〈 CAPACITOR 〉			
C460	1-136-233-11	FILM	0.0047uF	2%	100V
C461	1-136-228-11	FILM	0.0012uF	2%	100V
C462	1-137-507-11	FILM	1uF	10%	63V
C463	1-124-572-11	ELECT	100uF	20%	63V
C464	1-136-233-11	FILM	0.0047uF	2%	100V
C465	1-136-228-11	FILM	0.0012uF	2%	100V
C466	1-137-507-11	FILM	1uF	10%	63V
C467	1-124-572-11	ELECT	100uF	20%	63V
C468	1-136-272-00	FILM	68PF	5%	630V
C469	1-124-913-11	ELECT	470uF	20%	50V
C470	1-136-177-00	FILM	1uF	5%	50V
C471	1-124-572-11	ELECT	100uF	20%	63V
C472	1-137-507-11	FILM	1uF	10%	63V
C560	1-136-233-11	FILM	0.0047uF	2%	100V
C561	1-136-228-11	FILM	0.0012uF	2%	100V
C562	1-137-507-11	FILM	1uF	10%	63V
C563	1-124-572-11	ELECT	100uF	20%	63V
C564	1-136-233-11	FILM	0.0047uF	2%	100V
C565	1-136-228-11	FILM	0.0012uF	2%	100V
C566	1-137-507-11	FILM	1uF	10%	63V
C567	1-124-572-11	ELECT	100uF	20%	63V
C568	1-136-272-00	FILM	68PF	5%	630V
C569	1-124-913-11	ELECT	470uF	20%	50V
C570	1-136-177-00	FILM	1uF	5%	50V
C571	1-124-572-11	ELECT	100uF	20%	63V
C572	1-137-507-11	FILM	1uF	10%	63V
C660	1-137-507-11	FILM	1uF	10%	63V
C661	1-137-507-11	FILM	1uF	10%	63V
C662	1-162-806-11	CERAMIC	0.1uF	10%	50V
C663	1-162-806-11	CERAMIC	0.1uF	10%	50V
C664	1-162-806-11	CERAMIC	0.1uF	10%	50V
C665	1-162-806-11	CERAMIC	0.1uF	10%	50V
C666	1-126-045-11	ELECT	2.2uF	20%	50V
C667	1-126-696-11	ELECT	33uF	20%	35V
C668	1-126-696-11	ELECT	33uF	20%	35V
		〈 CONNECTOR 〉			
* CN461	1-573-263-11	PIN, CONNECTOR 4P			
* CN462	1-573-261-11	PIN, CONNECTOR 2P			
* CN463	1-573-261-11	PIN, CONNECTOR 2P			
* CN464	1-573-261-41	PIN, CONNECTOR 2P			
* CN562	1-573-263-21	PIN, CONNECTOR 4P			
* CN563	1-573-261-21	PIN, CONNECTOR 2P			
* CN564	1-573-261-21	PIN, CONNECTOR 2P			
* CN565	1-573-261-31	PIN, CONNECTOR 2P			
* CN660	1-573-265-11	PIN, CONNECTOR 6P			
* CN661	1-573-262-21	PIN, CONNECTOR 3P			
* CN662	1-573-262-41	PIN, CONNECTOR 3P			
* CN663	1-573-263-41	PIN, CONNECTOR 4P			
* CN664	1-573-265-41	PIN, CONNECTOR 6P			
		〈 DIODE 〉			
D661	8-719-987-63	DIODE	1N4148M		
D662	8-719-987-63	DIODE	1N4148M		
D663	8-719-987-63	DIODE	1N4148M		
D664	8-719-987-63	DIODE	1N4148M		
D666	8-719-114-30	DIODE	RD5.1JS-B2		
D667	8-719-933-74	DIODE	HZS12A2L		
		〈 IC 〉			
IC460	8-759-900-72	IC	NE5532P		
IC461	8-759-900-72	IC	NE5532P		
IC560	8-759-900-72	IC	NE5532P		
IC561	8-759-900-72	IC	NE5532P		
		〈 COIL 〉			
L470	1-410-970-11	INDUCTOR 6.8uH			
L471	1-410-967-11	INDUCTOR 2.2uH			
L472	1-410-970-11	INDUCTOR 6.8uH			
L473	1-410-970-11	INDUCTOR 6.8uH			
L570	1-410-970-11	INDUCTOR 6.8uH			
L571	1-410-967-11	INDUCTOR 2.2uH			
L572	1-410-970-11	INDUCTOR 6.8uH			
L573	1-410-970-11	INDUCTOR 6.8uH			
		〈 PHOTO INTERUPTER 〉			
PH661	8-719-902-56	DIODE PC817			
		〈 TRANSISTOR 〉			
Q460	8-729-224-61	TRANSISTOR	2SK246-Y		
Q461	8-729-809-29	TRANSISTOR	2SC4159-E		
Q462	8-729-809-26	TRANSISTOR	2SA1606-E		
Q463	8-729-184-53	TRANSISTOR	2SC1845-EA		
Q560	8-729-224-61	TRANSISTOR	2SK246-Y		
Q561	8-729-809-29	TRANSISTOR	2SC4159-E		
Q562	8-729-809-26	TRANSISTOR	2SA1606-E		
Q563	8-729-184-53	TRANSISTOR	2SC1845-EA		
Q661	8-729-900-80	TRANSISTOR	DTC114ES		
Q662	8-729-900-65	TRANSISTOR	DTA144ES		
Q663	8-729-900-65	TRANSISTOR	DTA144ES		
Q664	8-729-900-80	TRANSISTOR	DTC114ES		
Q665	8-729-900-80	TRANSISTOR	DTC114ES		

AUDIO SUB | BALANCE (L) | BALANCE (R)

Ref. No.	Part No.	Description				Remark
Q666	8-729-900-80	TRANSISTOR	DTC114ES			
		〈 RESISTOR 〉				
R460	1-247-713-11	CARBON	1K	5%	1/4W	
R461	1-247-713-11	CARBON	1K	5%	1/4W	
R462	1-247-891-00	CARBON	330K	5%	1/4W	
R463	1-247-702-11	CARBON	150	5%	1/4W	
R464	1-247-713-11	CARBON	1K	5%	1/4W	
R465	1-247-713-11	CARBON	1K	5%	1/4W	
R466	1-247-891-00	CARBON	330K	5%	1/4W	
R467	1-247-702-11	CARBON	150	5%	1/4W	
R468	1-247-891-00	CARBON	330K	5%	1/4W	
R469	1-247-891-00	CARBON	330K	5%	1/4W	
R470	1-247-891-00	CARBON	330K	5%	1/4W	
R471	1-249-586-11	CARBON	27K	5%	1/4W	
R472	1-247-721-11	CARBON	4.7K	5%	1/4W	
R473	1-247-725-11	CARBON	10K	5%	1/4W	
R474	1-247-704-11	CARBON	220	5%	1/4W	
R476	1-247-704-11	CARBON	220	5%	1/4W	
⚠R477	1-212-853-00	FUSIBLE	6.8	5%	1/4W	F
⚠R478	1-212-853-00	FUSIBLE	6.8	5%	1/4W	F
⚠R479	1-212-881-11	FUSIBLE	100	5%	1/4W	F
R480	1-249-465-11	CARBON	47K	5%	1/4W	
R481	1-249-586-11	CARBON	27K	5%	1/4W	
R482	1-247-891-00	CARBON	330K	5%	1/4W	
R483	1-247-700-11	CARBON	100	5%	1/4W	
R484	1-247-700-11	CARBON	100	5%	1/4W	
R485	1-247-713-11	CARBON	1K	5%	1/4W	
R486	1-247-713-11	CARBON	1K	5%	1/4W	
R560	1-247-713-11	CARBON	1K	5%	1/4W	
R561	1-247-713-11	CARBON	1K	5%	1/4W	
R562	1-247-891-00	CARBON	330K	5%	1/4W	
R563	1-247-702-11	CARBON	150	5%	1/4W	
R564	1-247-713-11	CARBON	1K	5%	1/4W	
R565	1-247-713-11	CARBON	1K	5%	1/4W	
R566	1-247-891-00	CARBON	330K	5%	1/4W	
R567	1-247-702-11	CARBON	150	5%	1/4W	
R568	1-247-891-00	CARBON	330K	5%	1/4W	
R569	1-247-891-00	CARBON	330K	5%	1/4W	
R570	1-247-891-00	CARBON	330K	5%	1/4W	
R571	1-249-586-11	CARBON	27K	5%	1/4W	
R572	1-247-721-11	CARBON	4.7K	5%	1/4W	
R573	1-247-725-11	CARBON	10K	5%	1/4W	
R574	1-247-704-11	CARBON	220	5%	1/4W	
R576	1-247-704-11	CARBON	220	5%	1/4W	
⚠R577	1-212-853-00	FUSIBLE	6.8	5%	1/4W	F
⚠R578	1-212-853-00	FUSIBLE	6.8	5%	1/4W	F
⚠R579	1-212-881-11	FUSIBLE	100	5%	1/4W	F
R580	1-249-465-11	CARBON	47K	5%	1/4W	
R581	1-249-586-11	CARBON	27K	5%	1/4W	
R582	1-247-891-00	CARBON	330K	5%	1/4W	
R583	1-247-700-11	CARBON	100	5%	1/4W	
R584	1-247-700-11	CARBON	100	5%	1/4W	
R585	1-247-713-11	CARBON	1K	5%	1/4W	
R586	1-247-713-11	CARBON	1K	5%	1/4W	
R661	1-259-432-11	CARBON	1.5K	5%	1/6W	
⚠R662	1-212-889-00	FUSIBLE	220	5%	1/4W	F
R663	1-259-468-11	CARBON	47K	5%	1/6W	
R664	1-259-460-11	CARBON	22K	5%	1/6W	
R665	1-259-468-11	CARBON	47K	5%	1/6W	
R666	1-259-460-11	CARBON	22K	5%	1/6W	
R667	1-259-468-11	CARBON	47K	5%	1/6W	
⚠R668	1-212-893-00	FUSIBLE	330	5%	1/4W	F
⚠R669	1-212-893-00	FUSIBLE	330	5%	1/4W	F
R670	1-259-380-11	CARBON	10	5%	1/6W	
		〈 RELAY 〉				
RY460	1-515-727-11	RELAY				
RY461	1-515-727-11	RELAY				
RY560	1-515-727-11	RELAY				
RY561	1-515-727-11	RELAY				
**********						
*	1-641-752-11	BALANCE (L) BOARD				
		**********				
		〈 CAPACITOR 〉				
C40	1-107-202-00	MICA	10PF	5%	500V	
C41	1-107-202-00	MICA	10PF	5%	500V	
		〈 CONNECTOR 〉				
* CN480	1-573-263-11	PIN, CONNECTOR 4P				
**********						
*	1-641-753-11	BALANCE (R) BOARD				
		**********				
		〈 CAPACITOR 〉				
C50	1-107-202-00	MICA	10PF	5%	500V	
C51	1-107-202-00	MICA	10PF	5%	500V	
		〈 CONNECTOR 〉				
* CN580	1-573-263-21	PIN, CONNECTOR 4P				
**********						

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

BALANCE SW | BSL | COAX | D POWER

Ref. No.	Part No.	Description				Remark
*	1-641-756-11	BALANCE SW BOARD				
		**********				
		〈 CONNECTOR 〉				
* CN761	1-573-263-41	PIN, CONNECTOR 4P				
		〈 SWITCH 〉				
SW761	1-571-083-11	SWITCH, SLIDE (BALANCE OUT)				
**********						
*	A-4617-993-A	BSL BOARD, COMPLETE				
		**********				
		〈 CAPACITOR 〉				
C10	1-124-779-00	ELECT CHIP	10uF	20%	16V	
C11	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V	
C20	1-124-779-00	ELECT CHIP	10uF	20%	16V	
C21	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V	
		〈 CONNECTOR 〉				
* CN1	1-564-519-11	PLUG, CONNECTOR 4P				
		〈 DIODE 〉				
H11	8-719-987-62	DIODE LT140SC-TE84L				
H21	8-719-987-62	DIODE LT140SC-TE84L				
		〈 IC 〉				
IC11	8-759-055-78	IC TA8407F(EL)				
IC21	8-759-055-78	IC TA8407F(EL)				
		〈 JACK 〉				
J11	1-216-296-00	METAL CHIP	0	5%	1/8W	
		〈 RESISTOR 〉				
R11	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R12	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R13	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R14	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R15	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R16	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R17	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R18	1-216-150-00	METAL GLAZE	10	5%	1/8W	
R19	1-216-070-00	METAL CHIP	7.5K	5%	1/10W	
R21	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R22	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R23	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R24	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R25	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R26	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R27	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R28	1-216-150-00	METAL GLAZE	10	5%	1/8W	
R29	1-216-070-00	METAL CHIP	7.5K	5%	1/10W	
**********						
*	1-641-754-11	COAX BOARD				
		**********				
		〈 CAPACITOR 〉				
C701	1-136-165-00	FILM	0.1uF	5%	50V	
C702	1-136-177-00	FILM	1uF	5%	50V	
C703	1-107-169-00	MICA	100PF	5%	500V	
		〈 CONNECTOR 〉				
* CN701	1-573-273-11	PIN, CONNECTOR 3P				
		〈 IC 〉				
IC701	8-759-917-18	IC SN74HCU04N				
		〈 JACK 〉				
J701	1-507-567-71	JACK, PIN 1P (DIGITAL OUT COAXIAL)				
		〈 RESISTOR 〉				
R701	1-259-401-11	CARBON	75	5%	1/6W	
		〈 COIL 〉				
T701	1-459-795-11	COIL (WITH CORE)				
**********						
*	A-4649-184-A	D POWER BOARD, COMPLETE				
		**********				
		〈 BUS BAR 〉				
* BUS1	1-691-279-11	BUS BAR 5P				
		〈 CAPACITOR 〉				
C950	1-107-202-00	MICA	10PF	5%	500V	
C951	1-136-177-00	FILM	1uF	5%	50V	
C952	1-130-483-00	MYLAR	0.01uF	5%	50V	
C953	1-128-217-11	ELECT	12000uF	20%	16V	
C954	1-128-217-11	ELECT	12000uF	20%	16V	
C955	1-124-994-11	ELECT	100uF	20%	10V	
C956	1-162-282-31	CERAMIC	100PF	10%	50V	
C957	1-124-999-11	ELECT	2200uF	20%	10V	
C959	1-162-282-31	CERAMIC	100PF	10%	50V	
C960	1-124-999-11	ELECT	2200uF	20%	10V	
C963	1-124-999-11	ELECT	2200uF	20%	10V	
C965	1-162-294-31	CERAMIC	0.001uF	10%	50V	

D POWER | DISPLAY

Ref. No.	Part No.	Description				Remark
C966	1-126-303-11	ELECT	3.3uF	20%	50V	
C967	1-126-064-11	ELECT	220uF	20%	63V	
C968	1-126-051-11	ELECT	47uF	20%	35V	
C969	1-136-165-00	FILM	0.1uF	5%	50V	
C970	1-126-052-11	ELECT	100uF	20%	35V	
C971	1-126-022-11	ELECT	47uF	20%	10V	
C972	1-124-994-11	ELECT	100uF	20%	10V	
C973	1-136-165-00	FILM	0.1uF	5%	50V	
C974	1-136-233-11	FILM	0.0047uF	2%	100V	
C975	1-130-483-00	MYLAR	0.01uF	5%	50V	
		〈 CONNECTOR 〉				
* CN951	1-573-262-11	PIN, CONNECTOR 3P				
* CN952	1-573-265-11	PIN, CONNECTOR 6P				
* CN953	1-573-266-11	PIN, CONNECTOR 7P				
* CN954	1-573-261-31	PIN, CONNECTOR 2P				
* CN955	1-573-262-31	PIN, CONNECTOR 3P				
* CN956	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P				
		〈 DIODE 〉				
D951	8-719-975-85	DIODE	ERB83-004			
D952	8-719-975-85	DIODE	ERB83-004			
D953	8-719-975-85	DIODE	ERB83-004			
D954	8-719-975-85	DIODE	ERB83-004			
D955	8-719-988-53	DIODE	LTZ-MR19			
D956	8-719-200-02	DIODE	10E2			
D957	8-719-115-04	DIODE	RD27JS-B2			
D958	8-719-114-26	DIODE	RD4.7JS-B2			
D959	8-719-109-66	DIODE	RD3.3ES-B2			
		〈 IC 〉				
IC951	8-759-602-01	IC	M5220P			
IC952	8-759-636-16	IC	M51957AL			
IC953	8-759-982-03	IC	RC5532DD			
		〈 BASE POST 〉				
LP951	1-535-139-00	BASE POST 22MM (10MM PITCH) 2P				
LP952	1-535-139-00	BASE POST 22MM (10MM PITCH) 2P				
		〈 IC LINK 〉				
⚠PS951	1-532-675-00	LINK, IC 1.5A				
		〈 TRANSISTOR 〉				
Q951	8-729-322-40	TRANSISTOR	2SA1083E			
Q952	8-729-905-67	TRANSISTOR	2SD1944-K			
Q953	8-729-905-67	TRANSISTOR	2SD1944-K			
Q954	8-729-322-40	TRANSISTOR	2SA1083E			
Q955	8-729-905-67	TRANSISTOR	2SD1944-K			
Q956	8-729-224-62	TRANSISTOR	2SK246-GR			
Q957	8-729-140-96	TRANSISTOR	2SD774-34			
Q958	8-729-140-97	TRANSISTOR	2SB734-34			
		〈 RESISTOR 〉				
⚠R951	1-212-877-11	FUSIBLE	68	5%	1/4W	F
R952	1-259-446-11	CARBON	5.6K	5%	1/6W	
R953	1-215-414-00	METAL	510	1%	1/6W	
R954	1-215-419-00	METAL	820	1%	1/6W	
R955	1-215-419-00	METAL	820	1%	1/6W	
R956	1-215-427-00	METAL	1.8K	1%	1/6W	
R957	1-259-380-11	CARBON	10	5%	1/6W	
R958	1-215-419-00	METAL	820	1%	1/6W	
R959	1-215-425-00	METAL	1.5K	1%	1/6W	
R960	1-259-380-11	CARBON	10	5%	1/6W	
R961	1-259-444-11	CARBON	4.7K	5%	1/6W	
R962	1-215-457-00	METAL	33K	1%	1/6W	
R963	1-215-447-00	METAL	12K	1%	1/6W	
R964	1-259-436-11	CARBON	2.2K	5%	1/6W	
R965	1-259-428-11	CARBON	1K	5%	1/6W	
R966	1-259-468-11	CARBON	47K	5%	1/6W	
R967	1-215-447-00	METAL	12K	1%	1/6W	
R968	1-259-468-11	CARBON	47K	5%	1/6W	
⚠R969	1-212-950-00	FUSIBLE	4.7	5%	1/2W	F
		〈 THERMISTOR 〉				
TH951	1-806-882-11	THERMISTOR, POSITIVE				
**********						
*	A-4649-013-A	DISPLAY BOARD, COMPLETE				
		**********				
		〈 CAPACITOR 〉				
C801	1-164-159-11	CERAMIC	0.1uF		50V	
C802	1-164-159-11	CERAMIC	0.1uF		50V	
C803	1-164-159-11	CERAMIC	0.1uF		50V	
C804	1-162-806-11	CERAMIC	0.1uF	10%	50V	
C805	1-164-159-11	CERAMIC	0.1uF		50V	
		〈 CONNECTOR 〉				
* CN802	1-573-266-11	PIN, CONNECTOR 7P				
		〈 DIODE 〉				
D801	8-719-987-63	DIODE	1N4148M			
D802	8-719-987-63	DIODE	1N4148M			
D803	8-719-913-49	LED	EBG5638S			
D804	8-719-913-47	LED	EAA5638S			
D805	8-719-913-47	LED	EAA5638S			
D806	8-719-913-49	LED	EBG5638S			

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DISPLAY | FIX | HP (B) | HP | L. MOTOR | M. VR

Ref. No.	Part No.	Description	Remark
		〈 FLUORESCENT INDICATOR 〉	
FLD801	1-519-688-11	INDICATOR TUBE, FLUORESCENT	
		〈 IC 〉	
IC801	8-759-070-02	IC MSC62408-039GS-V1K	
IC802	8-741-100-48	IC SBX1610-59	
		〈 TRANSISTOR 〉	
Q801	8-729-900-45	TRANSISTOR DTC114EF	
Q802	8-729-900-45	TRANSISTOR DTC114EF	
Q803	8-729-900-45	TRANSISTOR DTC114EF	
Q804	8-729-900-45	TRANSISTOR DTC114EF	
		〈 RESISTOR 〉	
R801	1-259-452-11	CARBON 10K 5% 1/6W	
R802	1-259-452-11	CARBON 10K 5% 1/6W	
R803	1-259-500-11	CARBON 1M 5% 1/6W	
R804	1-259-406-11	CARBON 120 5% 1/6W	
R805	1-259-414-11	CARBON 270 5% 1/6W	
R806	1-259-414-11	CARBON 270 5% 1/6W	
R807	1-259-406-11	CARBON 120 5% 1/6W	
		〈 SWITCH 〉	
S801	1-572-198-11	SWITCH, KEY BOARD (PLAY MODE)	
S802	1-572-198-11	SWITCH, KEY BOARD (DIGITAL OUTPUT)	
S803	1-572-198-11	SWITCH, KEY BOARD (DISPLAY MODE)	
S804	1-572-198-11	SWITCH, KEY BOARD (OPEN/CLOSE)	
S805	1-572-198-11	SWITCH, KEY BOARD (PLAY)	
S806	1-572-198-11	SWITCH, KEY BOARD (FF)	
S807	1-572-198-11	SWITCH, KEY BOARD (REW)	
S808	1-572-198-11	SWITCH, KEY BOARD (AMS ▶▶I)	
S809	1-572-198-11	SWITCH, KEY BOARD (PAUSE)	
S810	1-572-198-11	SWITCH, KEY BOARD (STOP)	
S811	1-572-198-11	SWITCH, KEY BOARD (AMS I◀◀)	
		〈 VIBRATOR 〉	
X801	1-577-359-21	VIBRATOR, CERAMIC (4.19 MHz)	
**********			
*	1-641-748-11	FIX BOARD *********	
		〈 CAPACITOR 〉	
C740	1-107-202-00	MICA 10PF 5% 500V	
C750	1-107-202-00	MICA 10PF 5% 500V	
		〈 CONNECTOR 〉	
* CN751	1-573-263-11	PIN, CONNECTOR 4P	
* CN752	1-573-261-41	PIN, CONNECTOR 2P	
		〈 DIODE 〉	
D701	8-719-987-63	DIODE 1N4148M	
**********			
*	1-642-213-11	HP(B) BOARD (US, Canadian, AEP: GOLD) **********	
*	1-641-759-11	HP BOARD (AEP) ********	
		〈 CAPACITOR 〉	
C490	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C590	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C710	1-164-159-11	CERAMIC 0.1uF 50V	
		〈 CONNECTOR 〉	
* CN710	1-573-274-11	PIN, CONNECTOR 4P	
		〈 JACK 〉	
J710	1-568-519-61	JACK, LARGE TYPE (US, Canadian, AEP: GOLD)	
	1-568-519-31	JACK, LARGE TYPE (AEP) (PHONES)	
**********			
*	1-641-765-11	L. MOTOR BOARD **********	
**********			
	1-641-761-11	M. VR BOARD **********	
		〈 CAPACITOR 〉	
C761	1-164-159-11	CERAMIC 0.1uF 50V	
		〈 CONNECTOR 〉	
* CN490	1-573-274-11	PIN, CONNECTOR 4P	
* CN590	1-573-274-21	PIN, CONNECTOR 4P	
* CN750	1-573-273-11	PIN, CONNECTOR 3P	
		〈 VARIABLE RESISTOR 〉	
RV751	1-241-792-11	RES, VAR, CARBBON 20K/20K	
**********			

OPT SERVO (1) (A)

Ref. No.	Part No.	Description			Remark
*	1-641-755-11	OPT BOARD			
		*********			
		⟨ CAPACITOR ⟩			
C704	1-136-165-00	FILM	0.1uF	5%	50V
C705	1-107-169-00	MICA	100PF	5%	500V
		⟨ IC ⟩			
IC702	8-759-977-71	IC GP-1F31T			
**********					
*	A-4649-006-A	SERVO (1) (A) BOARD, COMPLETE			
		**********			
		⟨ CAPACITOR ⟩			
C101	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C102	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C103	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C104	1-164-346-11	CERAMIC CHIP	1uF		16V
C105	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C106	1-164-346-11	CERAMIC CHIP	1uF		16V
C107	1-164-346-11	CERAMIC CHIP	1uF		16V
C108	1-162-294-31	CERAMIC	0.001uF	10%	50V
C109	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C110	1-124-584-00	ELECT	100uF	20%	10V
C111	1-164-346-11	CERAMIC CHIP	1uF		16V
C112	1-164-346-11	CERAMIC CHIP	1uF		16V
C113	1-164-346-11	CERAMIC CHIP	1uF		16V
C114	1-164-346-11	CERAMIC CHIP	1uF		16V
C115	1-162-806-11	CERAMIC	0.1uF	10%	50V
C116	1-162-806-11	CERAMIC	0.1uF	10%	50V
C121	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C122	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C123	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C124	1-163-986-00	CERAMIC CHIP	0.027uF	10%	25V
C125	1-163-986-00	CERAMIC CHIP	0.027uF	10%	25V
C141	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C142	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C151	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C152	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C153	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C154	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C155	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C156	1-164-346-11	CERAMIC CHIP	1uF		16V
C157	1-163-023-00	CERAMIC CHIP	0.015uF	5%	50V
C158	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C159	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C160	1-164-336-11	CERAMIC CHIP	0.33uF		25V
C161	1-163-023-00	CERAMIC CHIP	0.015uF	5%	50V
C171	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C172	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C173	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C174	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C175	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C177	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C178	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C179	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C180	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C181	1-164-346-11	CERAMIC CHIP	1uF		16V
C201	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C202	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C203	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C204	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C205	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C206	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C207	1-164-346-11	CERAMIC CHIP	1uF		16V
C301	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C302	1-125-622-11	CAP, DOUBLE LAYEYERS			0.10F
C303	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C304	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C305	1-164-346-11	CERAMIC CHIP	1uF		16V
		⟨ CONNECTOR ⟩			
* CN101	1-573-276-11	PIN, CONNECTOR 6P			
CN102	1-568-799-11	SOCKET, CONNECTOR 16P			
* CN112	1-580-001-11	PIN, CONNECTOR (PC BOARD) 4P			
* CN113	1-580-002-11	PIN, CONNECTOR (PC BOARD) 5P			
* CN141	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P			
* CN201	1-580-007-11	PIN, CONNECTOR (PC BOARD) 10P			
* CN202	1-580-003-11	PIN, CONNECTOR (PC BOARD) 6P			
* CN203	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P			
* CN301	1-691-465-11	PIN, CONNECTOR 9P			
* CN302	1-691-462-11	PIN, CONNECTOR 6P			
		⟨ DIODE ⟩			
D301	8-719-104-34	DIODE 1S2836			
		⟨ IC ⟩			
IC101	8-752-344-48	IC CXD2501Q			
IC102	8-759-071-79	IC BA6297FP-T1			
IC103	8-759-040-83	IC BA6287F-T1			
IC141	8-759-055-78	IC TA8407F(EL)			
IC142	8-759-981-92	IC RC4558M			
IC151	8-759-981-92	IC RC4558M			
IC152	8-759-981-92	IC RC4558M			
IC201	8-752-337-26	IC CXD2500AQ			
IC301	8-759-069-47	IC M37451M8-174FP			
IC302	8-759-512-81	IC LH5160N-10L			

SERVO (1) (A)

Ref. No.	Part No.	Description				Remark
		〈 TRANSISTOR 〉				
Q151	8-729-901-06	TRANSISTOR	DTA144EK			
Q181	8-729-901-01	TRANSISTOR	DTC144EK			
Q182	8-729-901-06	TRANSISTOR	DTA144EK			
		〈 RESISTOR 〉				
R101	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R102	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R103	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R104	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R105	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R106	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R107	1-216-025-00	METAL CHIP	100	5%	1/10W	
R108	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R121	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	
R122	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	
R123	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	
R124	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	
R125	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	
R126	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	
R127	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	
R128	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	
R129	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	
R130	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	
R131	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	
R132	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	
R133	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
R134	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
R141	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R142	1-216-079-00	METAL CHIP	18K	5%	1/10W	
R143	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R144	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R145	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R146	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R147	1-216-079-00	METAL CHIP	18K	5%	1/10W	
R148	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R149	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R151	1-216-070-00	METAL CHIP	7.5K	5%	1/10W	
R152	1-216-070-00	METAL CHIP	7.5K	5%	1/10W	
R153	1-216-070-00	METAL CHIP	7.5K	5%	1/10W	
R154	1-216-070-00	METAL CHIP	7.5K	5%	1/10W	
R155	1-216-093-00	METAL CHIP	68K	5%	1/10W	
R156	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R157	1-216-117-00	METAL CHIP	680K	5%	1/10W	
R158	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R159	1-216-083-00	METAL CHIP	27K	5%	1/10W	
R160	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R161	1-216-095-00	METAL CHIP	82K	5%	1/10W	
R163	1-216-076-00	METAL CHIP	13K	5%	1/10W	
R164	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R165	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R166	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R167	1-216-308-00	METAL CHIP	4.7	5%	1/10W	
R171	1-216-001-00	METAL CHIP	10	5%	1/10W	
R172	1-216-001-00	METAL CHIP	10	5%	1/10W	
R173	1-216-001-00	METAL CHIP	10	5%	1/10W	
R174	1-216-001-00	METAL CHIP	10	5%	1/10W	
R175	1-216-001-00	METAL CHIP	10	5%	1/10W	
R177	1-216-001-00	METAL CHIP	10	5%	1/10W	
R178	1-216-001-00	METAL CHIP	10	5%	1/10W	
R179	1-216-001-00	METAL CHIP	10	5%	1/10W	
R180	1-216-001-00	METAL CHIP	10	5%	1/10W	
R181	1-216-295-00	METAL CHIP	0	5%	1/10W	
R182	1-216-295-00	METAL CHIP	0	5%	1/10W	
R183	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R184	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R191	1-216-295-00	METAL CHIP	0	5%	1/10W	
R192	1-216-295-00	METAL CHIP	0	5%	1/10W	
R201	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R202	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R203	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R204	1-216-121-00	METAL CHIP	1M	5%	1/10W	
R205	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R206	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R207	1-216-041-00	METAL CHIP	470	5%	1/10W	
R208	1-216-041-00	METAL CHIP	470	5%	1/10W	
R209	1-216-041-00	METAL CHIP	470	5%	1/10W	
R210	1-216-033-00	METAL CHIP	220	5%	1/10W	
R211	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R212	1-216-037-00	METAL CHIP	330	5%	1/10W	
R213	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R301	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R303	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R304	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R305	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R306	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R307	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R308	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R309	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R310	1-216-121-00	METAL CHIP	1M	5%	1/10W	
R311	1-216-037-00	METAL CHIP	330	5%	1/10W	
R312	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R313	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R314	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R315	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R316	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R317	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R318	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R319	1-216-073-00	METAL CHIP	10K	5%	1/10W	

SERVO (1) (A) | SW | VARIABLE

Ref. No.	Part No.	Description	Remark
		〈 VIBRATOR 〉	
X301	1-577-377-11	VIBRATOR, CERAMIC	
**********			
*	1-641-764-11	SW BOARD ********	
		〈 CAPACITOR 〉	
C001	1-161-494-00	CERAMIC 0.022uF 25V	
		〈 RESISTOR 〉	
⚠R001	1-247-727-11	CARBON 10 5% 1/2W F	
⚠R002	1-247-727-11	CARBON 10 5% 1/2W F	
		〈 SWITCH 〉	
S001	1-571-300-21	SWITCH, ROTARY (IN SW)	
S002	1-571-300-21	SWITCH, ROTARY (OUT SW)	
**********			
*	1-641-749-11	VARIABLE BOARD **********	
		〈 CONNECTOR 〉	
* CN753	1-573-263-31	PIN, CONNECTOR 4P	
**********			
		MISCELLANEOUS **********	
⚠117	1-558-568-21	CORD, POWER (AEP)	
⚠117	1-690-958-11	CORD, POWER (US, Canadian)	
126	1-533-183-11	HOLDER, FUSE	
⚠222	8-848-244-11	DEVICE, OPTICAL KSS-272A	
D803	8-719-913-49	DIODE EBG5638S (PLAY)	
D804	8-719-913-47	DIODE EBG5638S (PAUSE)	
D805	8-719-913-47	DIODE EBG5638S (D/O ON)	
D806	8-719-913-49	DIODE EBG5638S (D/O OFF)	
J401	1-563-030-11	CONNECTOR (RECEPTACLE) 3P	
J501	1-563-030-11	CONNECTOR (RECEPTACLE) 3P	
J701	1-568-918-11	JACK, PIN 1P (FIXED R)	
J702	1-568-918-11	JACK, PIN 1P (FIXED L)	
J703	1-568-918-11	JACK, PIN 1P (VARIABLE R)	
J704	1-568-918-11	JACK, PIN 1P (VARIABLE L)	
⚠PT901	1-450-775-11	TRANSFORMER, POWER (US, Canadian)	
⚠PT901	1-450-776-11	TRANSFORMER, POWER (AEP)	
⚠PT901	1-532-215-00	FUSE, TIME-LAG (AEP)	
⚠PT901	1-532-825-11	FUSE, GLASS TUBE (US, Canadian)	
⚠S901	1-554-538-00	SWITCH, PUSH (AC POWER) (1 KEY)	

Ref. No.	Part No.	Description	Remark
**********			
		ACCESSORIES & PACKING MATERIALS **********	
	1-465-871-11	REMOTE COMMANDER (RM-D995) (US, Canadian, AEP: GOLD	
	1-465-872-11	REMOTE COMMANDER (RM-D996) (AEP: BLACK)	
	1-558-271-11	CORD, CONNECTION	
	3-707-584-01	COVER, BATTERY (AEP: BLACK)	
	3-707-584-11	COVER, BATTERY (US, Canadian, AEP: GOLD)	
	3-750-090-01	INSTRUCTION (Canadian)	
	3-750-411-11	MANUAL, INSTRUCTION	
	3-754-116-11	MANUAL, INSTRUCTION (ENGLISH, SPANISH, FRENCH, PORTUGUESE) (Canadian, AEP)	
	3-754-116-21	MANUAL, INSTRUCTION (ENGLISH) (US)	
	3-754-116-41	MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH, ITALIAN) (AEP)	
	3-795-629-11	INSTRUCTION (AEP)	
	4-847-802-00	SCREW	
*	4-928-005-01	CUSHION	
*	4-941-548-01	LABEL, CLASS 1 (AEP)	
*	4-951-272-01	INDIVIDUAL CARTON	
	9-910-999-33	INSTRUCTION (US)	
**********			
		HARDWARE LIST **********	
#1	7-682-664-09	SCREW +PSW 4X14	
#2	7-682-548-04	SCREW +BVTT 3X8 (S)	
#3	7-685-647-79	SCREW +BVTP 3X10 TYPE2 SLIT	
#4	7-682-562-09	SCREW +B 4X10	
#5	7-682-548-09	SCREW +BVTT 3X8 (S)	
#6	7-682-546-09	SCREW +B 3X5	
#7	7-682-549-04	SCREW +BVTT 3X10 (S)	
#8	7-682-547-04	SCREW +B 3X6	
#9	7-684-023-04	N 3, TYPE 2	
#10	7-685-246-14	SCREW +RKTP 3X8 TYPE2 SLIT	
#11	7-682-147-15	SCREW, TR	
#12	7-685-646-79	SCREW, TAPPING	
#13	7-621-775-10	SCREW +B 2.6X4	
#14	7-624-105-04	STOP RING 2.3, TYPE -E	
#15	7-682-547-09	SCREW +BVTT 3X6 (S)	
#16	7-685-131-19	SCREW +BTP 2.6X4 TYPE2 N-S	
#17	7-688-003-12	W 3, MIDDLE	
#18	7-682-544-04	SCREW +P 3X3	
#19	7-621-734-09	SET-SCT, HEX. 2.6X3	
#20	7-621-770-XX	SCREW +P 2.6X8	
#21	7-685-132-19	+ PTPWH (2.6X5)	
#22	7-621-770-67	SCREW +BVTT 2.6X6 (S)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Sony Corporation
Audio Group

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9-957-137-11

CDP-X779ES

SONY
SERVICE MANUAL

US Model
Canadian Model
AEP Model

SUPPLEMENT-1

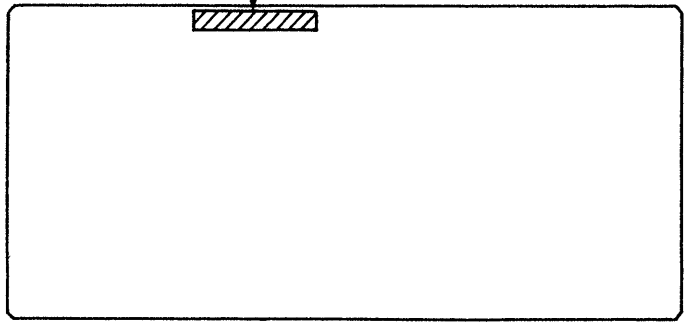
File this Supplement with the Service Manual.

Subject : Change of AUDIO board

New type identification :

[AUDIO BOARD] — Conductor side —

1-641-747-15,16



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Consumer A&V Products Company
Home A&V Products Div.

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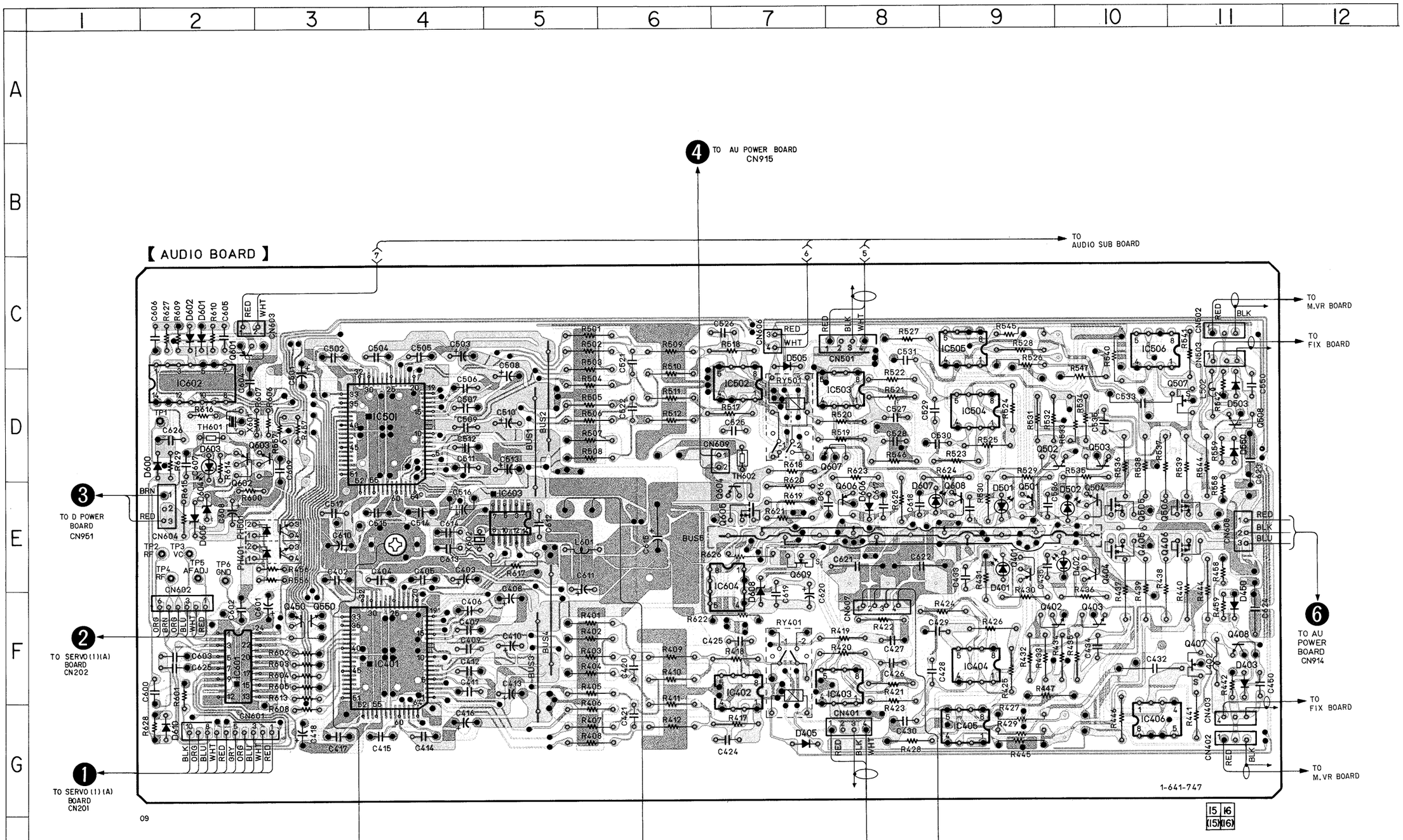
PRINTED WIRING BOARDS — AUDIO SECTION —



— AUDIO SECTION —

Note:

- ○—— : parts extracted from the component side.
- ●—— : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.
- ⊗ : Through hole.
- ▭ : Pattern from the side which enable seeing.
- ▭ : Pattern of the rear side.

— AUDIO SECTION —

Note:

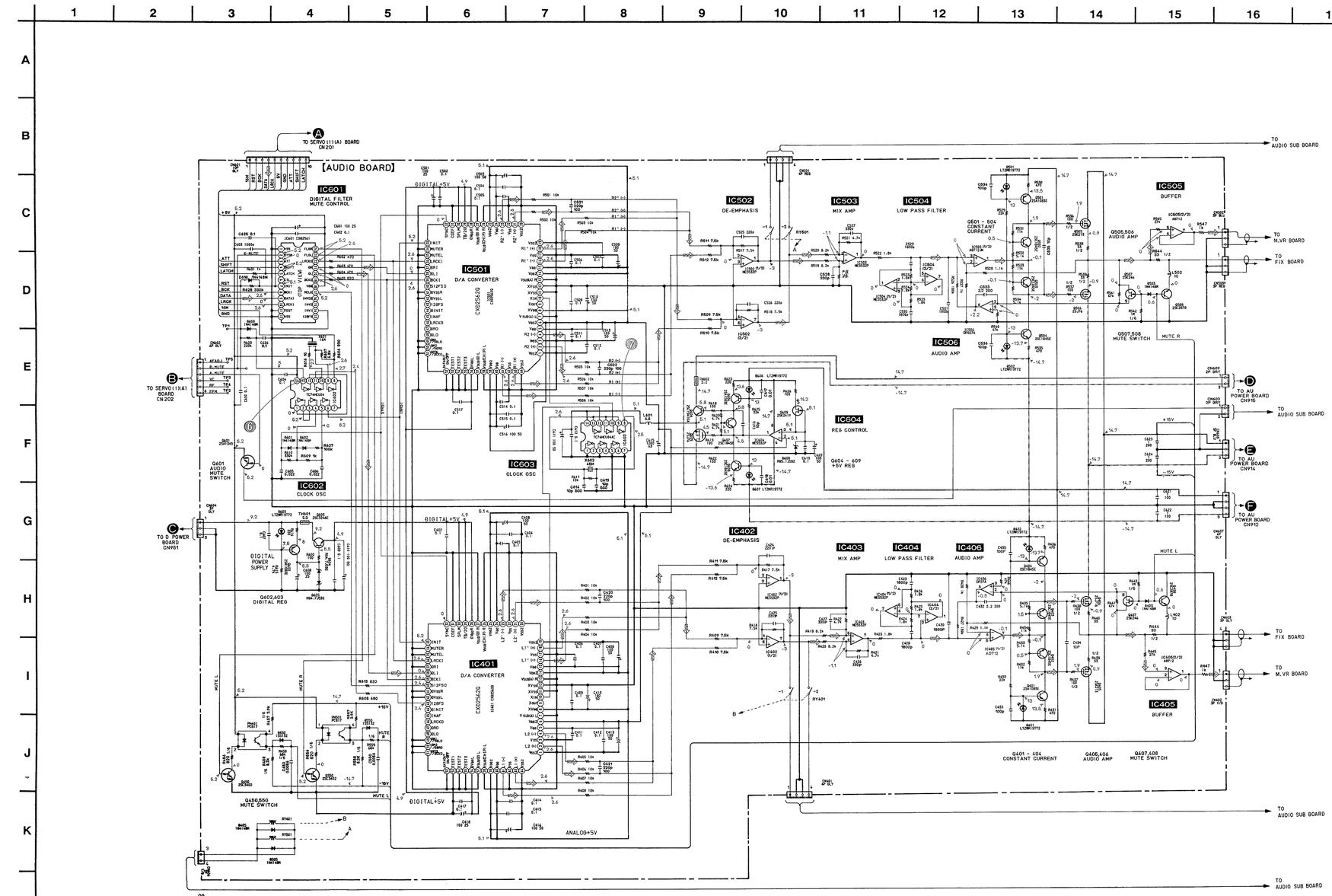
- All capacitors are in µF unless otherwise noted. pF:µµF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- ▭▭▭▭: B+ Line
- ▭▭▭▭: B– Line
- Voltage and waveforms are dc with respect to ground under no-signal (deturned) conditions.
  no mark : STOP
- Circled numbers refer to waveforms.
- Signal path.
  ▷▷ : CD

— AUDIO SECTION —

- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D401	F-9	Q401	F-9
D402	F-10	Q402	F-9
D403	G-11	Q403	F-10
D405	G-7	Q404	F-10
D450	F-11	Q405	E-10
D501	E-9	Q406	E-11
D502	E-10	Q407	F-11
D503	D-11	Q408	F-11
D505	D-7	Q450	F-3
D550	D-11	Q460	E-14
D600	E-2	Q481	F-15
D601	C-2	Q482	F-15
D602	C-2	Q483	F-14
D603	E-2	Q501	E-9
D604	E-2	Q502	E-10
D605	E-2	Q503	E-10
D606	E-8	Q504	E-10
D607	E-8	Q505	E-10
D608	F-7	Q506	E-11
D610	G-2	Q507	D-11
D681	E-16	Q508	D-11
D682	E-18	Q550	F-3
D683	G-17	Q560	E-14
D684	F-17	Q581	E-15
D686	F-17	Q582	E-15
D687	F-17	Q583	D-14
D701	I-12	Q601	D-2
		Q602	E-2
IC401	F-4	Q603	E-3
IC402	G-7	Q604	E-7
IC403	G-8	Q605	E-7
IC404	F-9	Q606	E-8
IC405	G-9	Q607	E-8
IC406	G-10	Q608	E-9
IC480	F-20	Q609	E-7
IC481	F-14	Q681	D-17
IC501	D-4	Q682	F-18
IC502	D-7	Q683	F-18
IC503	D-8	Q684	F-17
IC504	D-9	Q685	F-17
IC505	D-9	Q686	F-17
IC506	D-10		
IC560	D-20		
IC561	D-14		
IC801	F-2		
IC802	D-2		
IC803	E-5		
IC804	F-7		
PH401	E-3		
PH501	E-3		
PH661	D-17		

SCHEMATIC DIAGRAM — AUDIO SECTION —



ELECTRICAL PARTS LIST

NOTE:

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- RESISTORS
  All resistors are in ohms
- CAPACITORS
  uF : μF
- COILS
  uH : μH

Ref.No.	Part No.	Description			Remark
*	A-4649-018-A	AUDIO BOARD, COMPLETE			
		**********			
		< BUS BAR >			
* BUS1	1-569-137-11	BUS BAR 2P			
* BUS2	1-569-137-11	BUS BAR 2P			
* BUS3	1-569-137-11	BUS BAR 2P			
* BUS3	1-691-275-11	BUS BAR			
* BUS4	1-569-137-11	BUS BAR 2P			
		< CAPACITOR >			
C402	1-136-165-00	FILM	0.1uF	5%	50V
C403	1-126-052-11	ELECT	100uF	20%	50V
C404	1-162-806-11	CERAMIC	0.1uF	10%	50V
C405	1-162-806-11	CERAMIC	0.1uF	10%	50V
C406	1-162-806-11	CERAMIC	0.1uF	10%	50V
C407	1-162-806-11	CERAMIC	0.1uF	10%	50V
C408	1-126-052-11	ELECT	100uF	20%	50V
C409	1-162-806-11	CERAMIC	0.1uF	10%	50V
C410	1-126-052-11	ELECT	100uF	20%	50V
C411	1-162-806-11	CERAMIC	0.1uF	10%	50V
C412	1-162-806-11	CERAMIC	0.1uF	10%	50V
C413	1-126-052-11	ELECT	100uF	20%	50V
C414	1-162-806-11	CERAMIC	0.1uF	10%	50V
C415	1-162-806-11	CERAMIC	0.1uF	10%	50V
C416	1-126-052-11	ELECT	100uF	20%	50V
C417	1-136-165-00	FILM	0.1uF	5%	50V
C418	1-124-122-11	ELECT	100uF	20%	50V
C420	1-136-810-11	FILM	220PF	5%	100V
C421	1-136-810-11	FILM	220PF	5%	100V
C424	1-136-810-11	FILM	220PF	5%	100V
C425	1-136-810-11	FILM	220PF	5%	100V
C426	1-136-811-11	FILM	330PF	5%	100V
C427	1-136-811-11	FILM	330PF	5%	100V
C428	1-136-192-11	FILM	0.0018uF	2%	100V
C429	1-136-192-11	FILM	0.0018uF	2%	100V
C430	1-136-192-11	FILM	0.0018uF	2%	100V
C432	1-137-508-11	FILM	2.2uF	10%	63V
C433	1-107-169-00	MICA	100PF	5%	500V
C434	1-107-202-00	MICA	10PF	5%	500V
C435	1-107-169-00	MICA	100PF	5%	500V
C450	1-130-480-00	MYLAR	0.0056uF	5%	50V
C501	1-124-122-11	ELECT	100uF	20%	50V
C502	1-136-165-00	FILM	0.1uF	5%	50V
C503	1-126-052-11	ELECT	100uF	20%	50V
C504	1-162-806-11	CERAMIC	0.1uF	10%	50V
C505	1-162-806-11	CERAMIC	0.1uF	10%	50V
C506	1-162-806-11	CERAMIC	0.1uF	10%	50V
C507	1-162-806-11	CERAMIC	0.1uF	10%	50V
C508	1-126-052-11	ELECT	100uF	20%	50V
C509	1-162-806-11	CERAMIC	0.1uF	10%	50V
C510	1-126-052-11	ELECT	100uF	20%	50V
C511	1-162-806-11	CERAMIC	0.1uF	10%	50V
C512	1-162-806-11	CERAMIC	0.1uF	10%	50V
C513	1-126-052-11	ELECT	100uF	20%	50V
C514	1-162-806-11	CERAMIC	0.1uF	10%	50V
C515	1-162-806-11	CERAMIC	0.1uF	10%	50V
C516	1-126-052-11	ELECT	100uF	20%	50V
C517	1-136-165-00	FILM	0.1uF	5%	50V
C521	1-136-810-11	FILM	220PF	5%	100V
C522	1-136-810-11	FILM	220PF	5%	100V
C525	1-136-810-11	FILM	220PF	5%	100V
C526	1-136-810-11	FILM	220PF	5%	100V
C527	1-136-811-11	FILM	330PF	5%	100V
C528	1-136-811-11	FILM	330PF	5%	100V
C529	1-136-192-11	FILM	0.0018uF	2%	100V
C530	1-136-192-11	FILM	0.0018uF	2%	100V
C531	1-136-192-11	FILM	0.0018uF	2%	100V
C533	1-137-508-11	FILM	2.2uF	10%	63V
C534	1-107-169-00	MICA	100PF	5%	500V
C535	1-107-202-00	MICA	10PF	5%	500V
C536	1-107-169-00	MICA	100PF	5%	500V
C550	1-130-480-00	MYLAR	0.0056uF	5%	50V
C600	1-164-159-11	CERAMIC	0.1uF		50V
C601	1-124-122-11	ELECT	100uF	20%	50V
C602	1-136-165-00	FILM	0.1uF	5%	50V
C603	1-162-294-31	CERAMIC	0.001uF	10%	50V
C604	1-136-165-00	FILM	0.1uF	5%	50V
C605	1-161-494-00	CERAMIC	0.022uF		25V
C606	1-161-494-00	CERAMIC	0.022uF		25V
C607	1-136-165-00	FILM	0.1uF	5%	50V
C608	1-124-122-11	ELECT	100uF	20%	50V
C609	1-136-165-00	FILM	0.1uF	5%	50V
C610	1-126-052-11	ELECT	100uF	20%	50V
C611	1-124-572-11	ELECT	100uF	20%	63V
C612	1-162-806-11	CERAMIC	0.1uF	10%	50V
C613	1-107-202-00	MICA	10PF	5%	500V
C614	1-107-202-00	MICA	10PF	5%	500V
C615	1-125-663-11	ELECT	1200uF	20%	63V
C616	1-107-202-00	MICA	10PF	5%	500V
C617	1-130-483-00	MYLAR	0.01uF	5%	50V

Ref.No.	Part No.	Description			Remark
C618	1-130-483-00	MYLAR	0.01uF	5%	50V
C619	1-162-806-11	CERAMIC	0.1uF	10%	50V
C620	1-124-572-11	ELECT	100uF	20%	63V
C621	1-137-507-11	FILM	1uF	10%	63V
C622	1-137-507-11	FILM	1uF	10%	63V
C623	1-137-507-11	FILM	1uF	10%	63V
C624	1-137-507-11	FILM	1uF	10%	63V
C625	1-164-159-11	CERAMIC	0.1uF		50V
C626	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
* CN401	1-573-263-11	PIN, CONNECTOR 4P			
* CN402	1-573-262-41	PIN, CONNECTOR 3P			
* CN403	1-573-262-11	PIN, CONNECTOR 3P			
* CN501	1-573-263-21	PIN, CONNECTOR 4P			
* CN502	1-573-262-31	PIN, CONNECTOR 3P			
* CN503	1-573-262-21	PIN, CONNECTOR 3P			
* CN601	1-569-997-11	PIN, CONNECTOR (PC BOARD) 10P			
* CN602	1-569-993-11	PIN, CONNECTOR (PC BOARD) 6P			
* CN603	1-573-261-11	PIN, CONNECTOR 2P			
* CN604	1-573-262-11	PIN, CONNECTOR 3P			
* CN606	1-573-261-41	PIN, CONNECTOR 2P			
* CN607	1-573-263-11	PIN, CONNECTOR 4P			
* CN608	1-573-262-31	PIN, CONNECTOR 3P			
* CN609	1-573-261-11	PIN, CONNECTOR 2P			
		< DIODE >			
D401	8-719-988-53	DIODE	LTZ-MR19		
D402	8-719-988-53	DIODE	LTZ-MR19		
D403	8-719-987-63	DIODE	1N4148M		
D405	8-719-987-63	DIODE	1N4148M		
D450	8-719-987-63	DIODE	1N4148M		
D501	8-719-988-53	DIODE	LTZ-MR19		
D502	8-719-988-53	DIODE	LTZ-MR19		
D503	8-719-987-63	DIODE	1N4148M		
D505	8-719-987-63	DIODE	1N4148M		
D550	8-719-987-63	DIODE	1N4148M		
D600	8-719-987-63	DIODE	1N4148M		
D601	8-719-987-63	DIODE	1N4148M		
D602	8-719-987-63	DIODE	1N4148M		
D603	8-719-988-53	DIODE	LTZ-MR19		
D604	8-719-114-26	DIODE	RD4.7JS-B2		
D605	8-719-114-26	DIODE	RD4.7JS-B2		
D606	8-719-988-53	DIODE	LTZ-MR19		
D607	8-719-988-53	DIODE	LTZ-MR19		
D608	8-719-114-30	DIODE	RD5.1JS-B2		
D610	8-719-987-63	DIODE	1N4148M		
		< IC >			
IC401	8-759-044-10	IC	CXD2562Q		
IC402	8-759-900-72	IC	NE5532P		
IC403	8-759-900-72	IC	NE5532P		
IC404	8-759-900-72	IC	NE5532P		
IC405	8-759-971-80	IC	AD712JN		
IC406	8-759-998-79	IC	OPA27GP		
IC501	8-759-044-10	IC	CXD2562Q		
IC502	8-759-900-72	IC	NE5532P		
IC503	8-759-900-72	IC	NE5532P		
IC504	8-759-900-72	IC	NE5532P		
IC505	8-759-971-80	IC	AD712JN		
IC506	8-759-998-79	IC	OPA27GP		
IC601	8-752-342-65	IC	CXD2560M		
IC602	8-759-917-18	IC	SN74HCU04AN		
IC603	8-759-233-64	IC	TC74HCU04AF		
IC604	8-759-900-72	IC	NE5532P		
		< COIL >			
L402	1-410-971-11	INDUCTOR	10uH		
L502	1-410-971-11	INDUCTOR	10uH		
L601	1-410-970-11	INDUCTOR	6.8uH		
		< PHOTO INTERUPTER >			
PH401	8-719-902-56	DIODE	PC817		
PH501	8-719-902-56	DIODE	PC817		
		< TRANSISTOR >			
Q401	8-729-322-40	TRANSISTOR	2SA1083E		
Q402	8-729-184-53	TRANSISTOR	2SC1845-EA		
Q403	8-729-184-53	TRANSISTOR	2SC1845-EA		
Q404	8-729-184-53	TRANSISTOR	2SC1845-EA		
Q405	8-729-321-35	TRANSISTOR	2SK213		
Q406	8-729-307-65	TRANSISTOR	2SJ76		
Q407	8-729-224-62	TRANSISTOR	2SK246-GR		
Q408	8-729-231-55	TRANSISTOR	2SC2878-AB		
Q450	8-729-900-80	TRANSISTOR	DTC114ES		
Q501	8-729-322-40	TRANSISTOR	2SA1083E		
Q502	8-729-184-53	TRANSISTOR	2SC1845-EA		
Q503	8-729-184-53	TRANSISTOR	2SC1845-EA		
Q504	8-729-184-53	TRANSISTOR	2SC1845-EA		
Q505	8-729-321-35	TRANSISTOR	2SK213		
Q506	8-729-307-65	TRANSISTOR	2SJ76		
Q507	8-729-224-62	TRANSISTOR	2SK246-GR		
Q508	8-729-231-55	TRANSISTOR	2SC2878-AB		
Q550	8-729-900-80	TRANSISTOR	DTC114ES		
Q601	8-729-900-65	TRANSISTOR	DTA144ES		
Q602	8-729-322-40	TRANSISTOR	2SA1083E		
Q603	8-729-620-23	TRANSISTOR	2SC3246-JK		
Q604	8-729-104-18	TRANSISTOR	2SC3514		
Q605	8-729-307-65	TRANSISTOR	2SJ76		
Q606	8-729-322-40	TRANSISTOR	2SA1083E		
Q607	8-729-184-53	TRANSISTOR	2SC1845-EA		

Ref.No.	Part No.	Description				Remark
Q608	8-729-184-53	TRANSISTOR	2SC1845-EA			
Q609	8-729-203-02	TRANSISTOR	2SK30A-O			
		< RESISTOR >				
R401	1-249-947-11	CARBON	10K	1%	1/4W	
R402	1-249-947-11	CARBON	10K	1%	1/4W	
R403	1-249-947-11	CARBON	10K	1%	1/4W	
R404	1-249-947-11	CARBON	10K	1%	1/4W	
R405	1-249-947-11	CARBON	10K	1%	1/4W	
R406	1-249-947-11	CARBON	10K	1%	1/4W	
R407	1-249-947-11	CARBON	10K	1%	1/4W	
R408	1-249-947-11	CARBON	10K	1%	1/4W	
R409	1-249-944-11	CARBON	7.5K	1%	1/4W	
R410	1-249-944-11	CARBON	7.5K	1%	1/4W	
R411	1-249-944-11	CARBON	7.5K	1%	1/4W	
R412	1-249-944-11	CARBON	7.5K	1%	1/4W	
R417	1-249-944-11	CARBON	7.5K	1%	1/4W	
R418	1-249-944-11	CARBON	7.5K	1%	1/4W	
R419	1-249-945-11	CARBON	8.2K	1%	1/4W	
R420	1-249-945-11	CARBON	8.2K	1%	1/4W	
R421	1-247-721-11	CARBON	4.7K	5%	1/4W F	
R422	1-247-721-11	CARBON	4.7K	5%	1/4W F	
R423	1-249-929-11	CARBON	1.8K	1%	1/4W	
R424	1-249-929-11	CARBON	1.8K	1%	1/4W	
R425	1-249-929-11	CARBON	1.8K	1%	1/4W	
R426	1-249-929-11	CARBON	1.8K	1%	1/4W	
R427	1-249-977-11	CARBON	180K	1%	1/4W	
R428	1-247-713-11	CARBON	1K	5%	1/4W F	
R429	1-214-730-00	METAL	1.1K	1%	1/4W	
R430	1-249-462-11	CARBON	22K	5%	1/4W	
R431	1-249-915-11	CARBON	470	1%	1/4W	
R432	1-249-948-11	CARBON	11K	1%	1/4W	
R433	1-249-940-11	CARBON	5.1K	1%	1/4W	
R434	1-249-948-11	CARBON	11K	1%	1/4W	
R435	1-249-940-11	CARBON	5.1K	1%	1/4W	
R436	1-249-915-11	CARBON	470	1%	1/4W	
R437	1-259-531-11	CARBON	100	1%	1/2W	
R438	1-259-531-11	CARBON	100	1%	1/2W	
R439	1-259-519-11	CARBON	33	1%	1/2W	
R440	1-259-519-11	CARBON	33	1%	1/2W	
R441	1-249-465-11	CARBON	47K	5%	1/4W	
R442	1-259-500-11	CARBON	1M	5%	1/6W	
R444	1-259-519-11	CARBON	33	1%	1/2W	
R445	1-249-586-11	CARBON	27K	5%	1/4W	
R446	1-249-465-11	CARBON	47K	5%	1/4W	
R447	1-247-713-11	CARBON	1K	5%	1/4W F	
R456	1-259-426-11	CARBON	820	5%	1/6W	
R457	1-259-442-11	CARBON	3.9K	5%	1/6W	
R458	1-259-450-11	CARBON	8.2K	5%	1/6W	
R459	1-259-472-11	CARBON	68K	5%	1/6W	

Ref.No.	Part No.	Description				Remark
R501	1-249-947-11	CARBON	10K	1%	1/4W	
R502	1-249-947-11	CARBON	10K	1%	1/4W	
R503	1-249-947-11	CARBON	10K	1%	1/4W	
R504	1-249-947-11	CARBON	10K	1%	1/4W	
R505	1-249-947-11	CARBON	10K	1%	1/4W	
R506	1-249-947-11	CARBON	10K	1%	1/4W	
R507	1-249-947-11	CARBON	10K	1%	1/4W	
R508	1-249-947-11	CARBON	10K	1%	1/4W	
R509	1-249-944-11	CARBON	7.5K	1%	1/4W	
R510	1-249-944-11	CARBON	7.5K	1%	1/4W	
R511	1-249-944-11	CARBON	7.5K	1%	1/4W	
R512	1-249-944-11	CARBON	7.5K	1%	1/4W	
R517	1-249-944-11	CARBON	7.5K	1%	1/4W	
R518	1-249-944-11	CARBON	7.5K	1%	1/4W	
R519	1-249-945-11	CARBON	8.2K	1%	1/4W	
R520	1-249-945-11	CARBON	8.2K	1%	1/4W	
R521	1-247-721-11	CARBON	4.7K	5%	1/4W F	
R522	1-249-929-11	CARBON	1.8K	1%	1/4W	
R523	1-249-929-11	CARBON	1.8K	1%	1/4W	
R524	1-249-929-11	CARBON	1.8K	1%	1/4W	
R525	1-249-929-11	CARBON	1.8K	1%	1/4W	
R526	1-249-977-11	CARBON	180K	1%	1/4W	
R527	1-247-713-11	CARBON	1K	5%	1/4W F	
R528	1-214-730-00	METAL	1.1K	1%	1/4W	
R529	1-249-462-11	CARBON	22K	5%	1/4W	
R530	1-249-915-11	CARBON	470	1%	1/4W	
R531	1-249-948-11	CARBON	11K	1%	1/4W	
R532	1-249-940-11	CARBON	5.1K	1%	1/4W	
R533	1-249-948-11	CARBON	11K	1%	1/4W	
R534	1-249-940-11	CARBON	5.1K	1%	1/4W	
R535	1-249-915-11	CARBON	470	1%	1/4W	
R536	1-259-531-11	CARBON	100	1%	1/2W	
R537	1-259-531-11	CARBON	100	1%	1/2W	
R538	1-259-519-11	CARBON	33	1%	1/2W	
R539	1-259-519-11	CARBON	33	1%	1/2W	
R540	1-249-465-11	CARBON	47K	5%	1/4W	
R541	1-249-465-11	CARBON	47K	5%	1/4W	
R542	1-259-500-11	CARBON	1M	5%	1/6W	
R544	1-259-519-11	CARBON	33	1%	1/2W	
R545	1-249-586-11	CARBON	27K	5%	1/4W	
R546	1-247-721-11	CARBON	4.7K	5%	1/4W F	
R547	1-247-713-11	CARBON	1K	5%	1/4W F	
R556	1-259-426-11	CARBON	820	5%	1/6W	
R557	1-259-442-11	CARBON	3.9K	5%	1/6W	
R558	1-259-450-11	CARBON	8.2K	5%	1/6W	
R559	1-259-472-11	CARBON	68K	5%	1/6W	
R600	1-259-404-11	CARBON	100	5%	1/6W	
R601	1-259-428-11	CARBON	1K	5%	1/6W	
R602	1-259-420-11	CARBON	470	5%	1/6W	
R603	1-259-420-11	CARBON	470	5%	1/6W	

Ref. No.	Part No.	Description				Remark
R604	1-259-420-11	CARBON	470	5%	1/6W	
R605	1-259-420-11	CARBON	470	5%	1/6W	
R606	1-259-416-11	CARBON	330	5%	1/6W	
R607	1-259-448-11	CARBON	6.8K	5%	1/6W	
R608	1-259-424-11	CARBON	680	5%	1/6W	
R609	1-259-428-11	CARBON	1K	5%	1/6W	
R610	1-259-488-11	CARBON	330K	5%	1/6W	
R613	1-259-426-11	CARBON	820	5%	1/6W	
R614	1-259-412-11	CARBON	220	5%	1/6W	
R615	1-259-444-11	CARBON	4.7K	5%	1/6W	
R616	1-259-380-11	CARBON	10	5%	1/6W	
R617	1-249-947-11	CARBON	10K	1%	1/4W	
R618	1-247-700-11	CARBON	100	5%	1/4W	F
R619	1-247-700-11	CARBON	100	5%	1/4W	F
R620	1-247-721-11	CARBON	4.7K	5%	1/4W	F
R621	1-247-721-11	CARBON	4.7K	5%	1/4W	F
R622	1-247-700-11	CARBON	100	5%	1/4W	F
R623	1-249-907-11	CARBON	220	1%	1/4W	
R624	1-249-907-11	CARBON	220	1%	1/4W	
R625	1-249-497-11	CARBON	33K	5%	1/4W	
R626	1-247-700-11	CARBON	100	5%	1/4W	F
R627	1-259-476-11	CARBON	100K	5%	1/6W	
R628	1-259-488-11	CARBON	330K	5%	1/6W	
R629	1-259-484-11	CARBON	220K	5%	1/6W	
		< RELAY >				
RY401	1-515-804-11	RELAY				
RY501	1-515-804-11	RELAY				
		< THERMISTOR >				
TH601	1-806-882-11	THERMISTOR, POSITIVE				
TH602	1-806-882-11	THERMISTOR, POSITIVE				
		< VIBRATOR >				
X601	1-577-685-11	FILTER, CRYSTAL (16MHz)				
X602	1-577-686-11	VIBRATOR, CRYSTAL (45MHz)				

CDP-X779ES

SONY

SERVICE MANUAL

US Model
Canadian Model
AEP Model

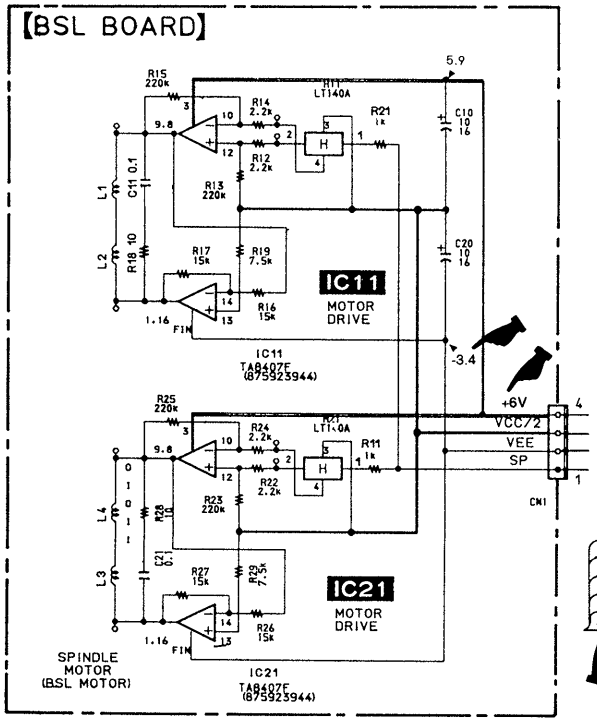
CORRECTION-1

Please correct your Service Manual.

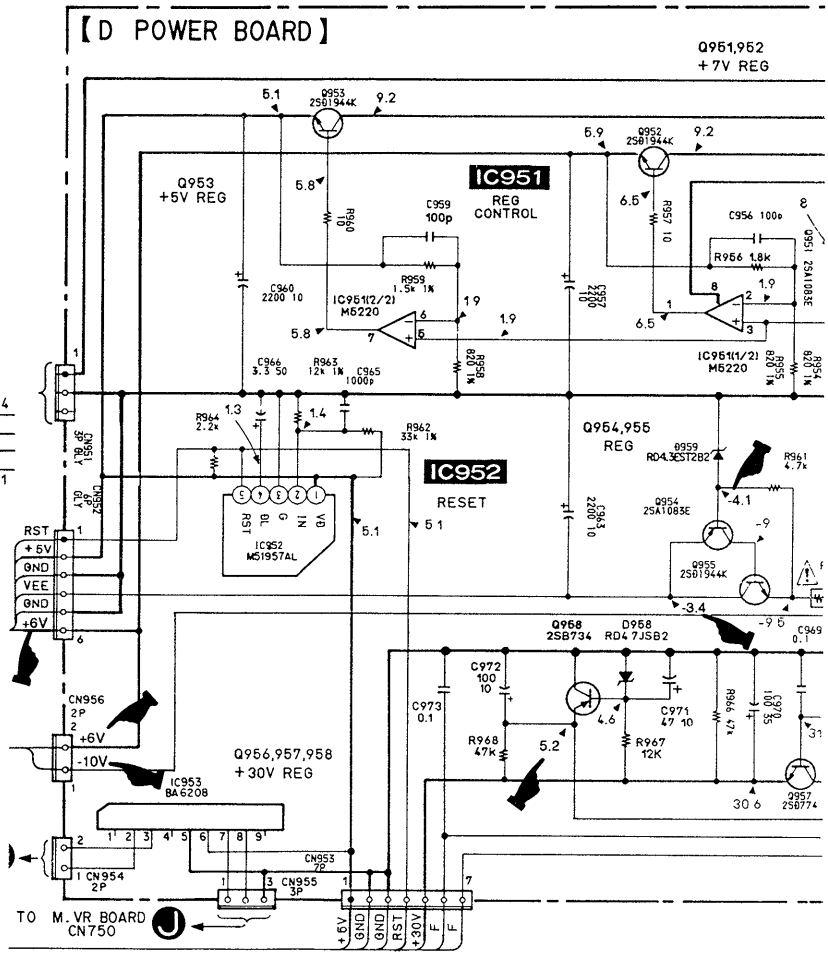
3-5. SCHEMATIC DIAGRAM — DIGITAL SECTION —

☛: Changed portion

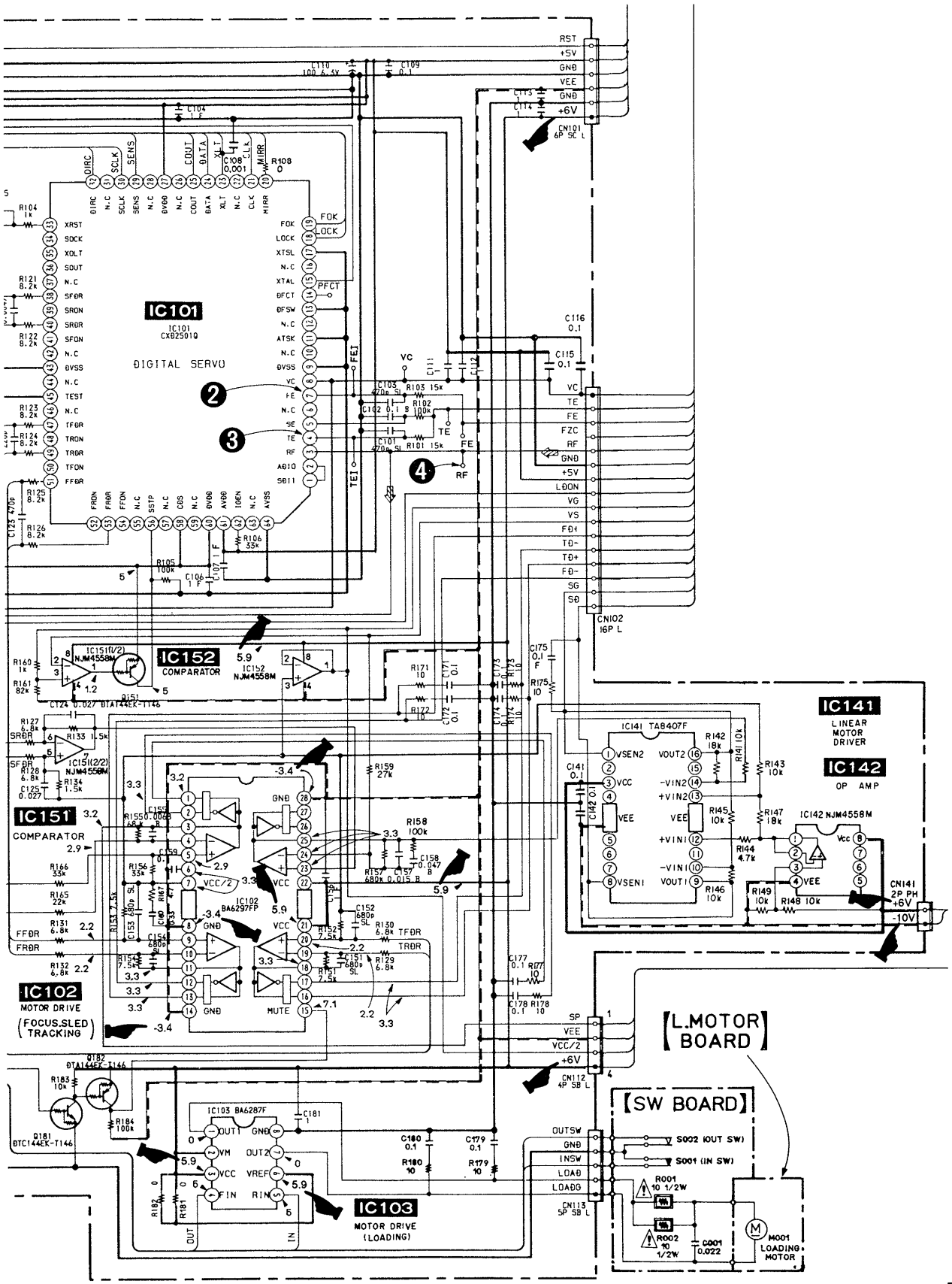
- **BSL BOARD (Page 22 Address G-20)**



- **D POWER BOARD (Page 23 Address D-25)**



• **SERVO (1) (A) BOARD (Page 22 Address K-13)**



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Audio Group

9-957-137-91

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CORRECTION-2

File this Correction with Service Manual.

Refer this correction manual for printed wiring board-Audio section due to error of printing on page 12, 13 & 14 which is previous issued.

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Consumer A&V Products Company
Home A&V Products Div.

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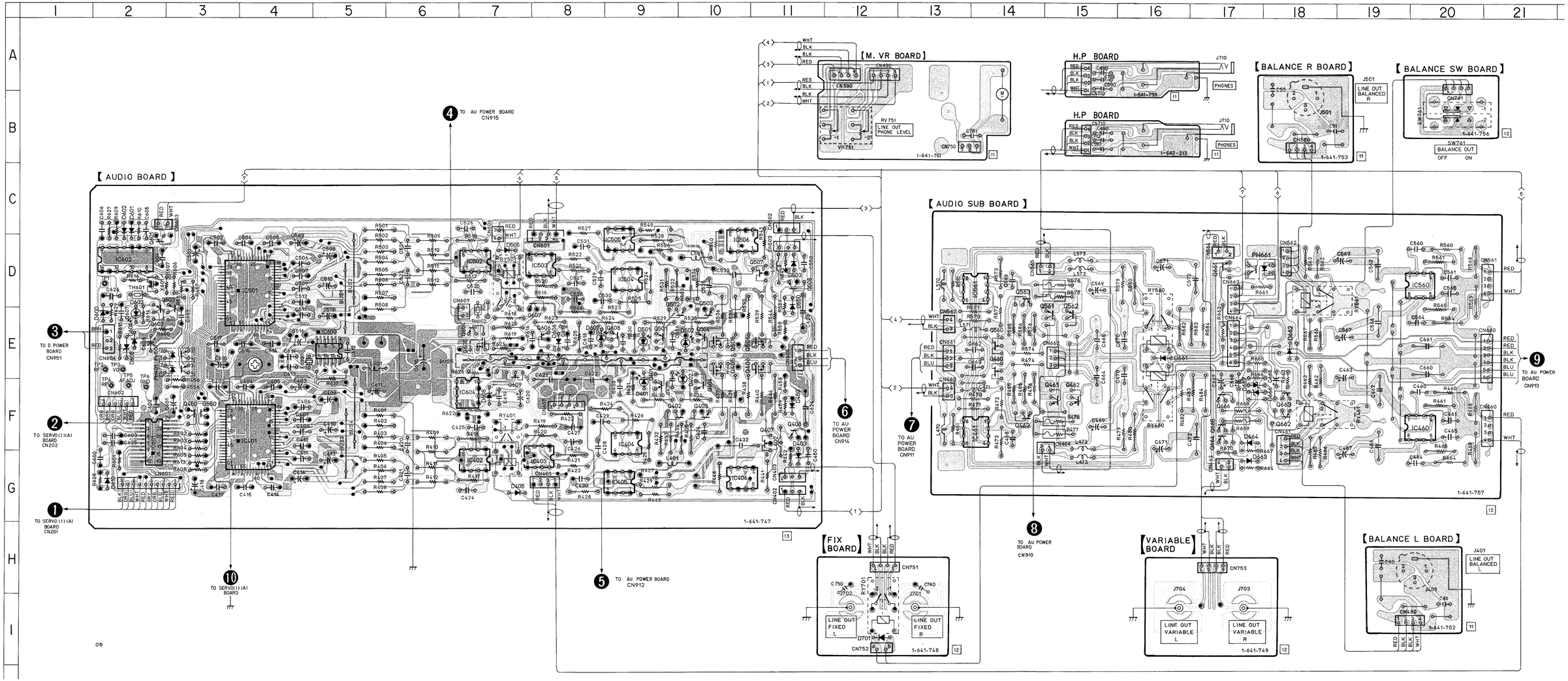
Quality Engineering Dept.

3-3. PRINTED WIRING BOARD —Audio Section—

— AUDIO SECTION —

Note:

- ○——: parts extracted from the component side.
- ●—: parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.
- ● : Through hole.
- : Pattern from the side which enable seeing.
- : Pattern of the rear side.



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CORRECTION-3

Correct your service manual as shown below.

____ (Under line) :indicates corrected portion.

Page	INCORRECT			CORRECT	
	Ref. No.	Part No.	Description	Part No.	Description
34	69	4-947-958-51	CAP (S), KNOB (AEP:BLACK)	4-947-958-41	CAP (S), KNOB (AEP:BLACK)
	70	4-947-958-41	CAP (S), KNOB (AEP:BLACK)	4-947-958-51	CAP (S), KNOB (AEP:BLACK)

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